



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 08:38 AM UTC

PDB ID : 3UUB / pdb_00003uub
Title : The GLIC pentameric Ligand-Gated Ion Channel Loop2-21' mutant reduced in solution
Authors : Sauguet, L.; Nury, H.; Corringer, P.J.; Delarue, M.
Deposited on : 2011-11-28
Resolution : 2.90 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

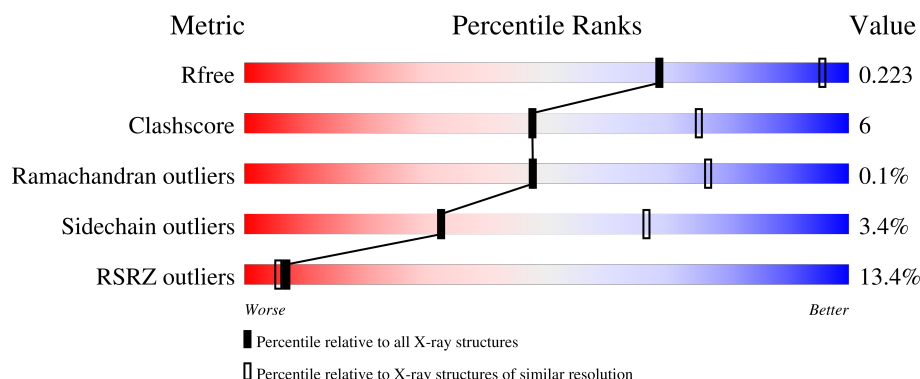
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.90 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	2481 (2.90-2.90)
Clashscore	190562	2690 (2.90-2.90)
Ramachandran outliers	187476	2623 (2.90-2.90)
Sidechain outliers	187428	2625 (2.90-2.90)
RSRZ outliers	180081	2481 (2.90-2.90)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	321	12% 82% 13% ..
1	B	321	9% 81% 14% ..
1	C	321	14% 82% 13% ..
1	D	321	18% 80% 15% ..
1	E	321	15% 84% 10% ..

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Mol	Chain	Length	Quality of chain
1	F	321	
1	G	321	
1	H	321	
1	I	321	
1	J	321	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	PLC	A	319	-	-	-	X
2	PLC	F	320	-	-	-	X
2	PLC	G	319	-	-	-	X
2	PLC	H	319	-	-	-	X
2	PLC	I	320	-	-	-	X
4	NA	A	323	-	-	-	X

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 26063 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Glr4197 protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	311	Total	C	N	O	S	0	0	0
			2520	1660	402	453	5			
1	B	311	Total	C	N	O	S	0	0	0
			2520	1660	402	453	5			
1	C	311	Total	C	N	O	S	0	0	0
			2520	1660	402	453	5			
1	D	311	Total	C	N	O	S	0	0	0
			2520	1660	402	453	5			
1	E	311	Total	C	N	O	S	0	0	0
			2520	1660	402	453	5			
1	F	311	Total	C	N	O	S	0	0	0
			2520	1660	402	453	5			
1	G	311	Total	C	N	O	S	0	1	0
			2531	1666	406	454	5			
1	H	311	Total	C	N	O	S	0	0	0
			2520	1660	402	453	5			
1	I	311	Total	C	N	O	S	0	0	0
			2520	1660	402	453	5			
1	J	311	Total	C	N	O	S	0	0	0
			2520	1660	402	453	5			

There are 80 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-3	GLY	-	expression tag	UNP Q7NDN8
A	-2	SER	-	expression tag	UNP Q7NDN8
A	-1	ALA	-	expression tag	UNP Q7NDN8
A	0	ALA	-	expression tag	UNP Q7NDN8
A	1	ALA	-	expression tag	UNP Q7NDN8
A	27	SER	CYS	engineered mutation	UNP Q7NDN8
A	33	CYS	LYS	engineered mutation	UNP Q7NDN8
A	245	CYS	ASN	engineered mutation	UNP Q7NDN8
B	-3	GLY	-	expression tag	UNP Q7NDN8

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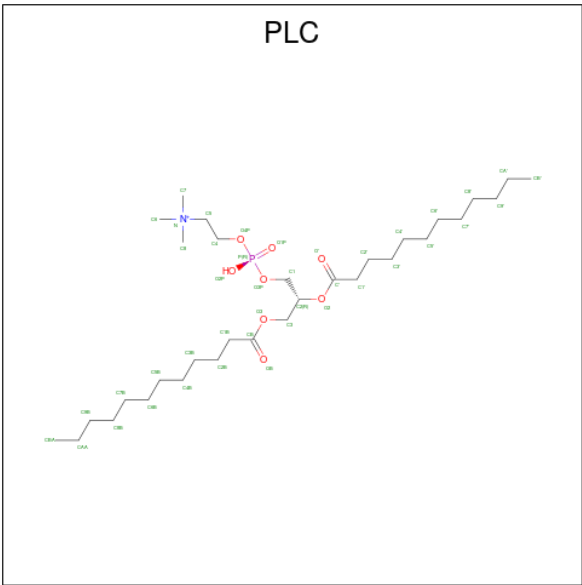
Chain	Residue	Modelled	Actual	Comment	Reference
B	-2	SER	-	expression tag	UNP Q7NDN8
B	-1	ALA	-	expression tag	UNP Q7NDN8
B	0	ALA	-	expression tag	UNP Q7NDN8
B	1	ALA	-	expression tag	UNP Q7NDN8
B	27	SER	CYS	engineered mutation	UNP Q7NDN8
B	33	CYS	LYS	engineered mutation	UNP Q7NDN8
B	245	CYS	ASN	engineered mutation	UNP Q7NDN8
C	-3	GLY	-	expression tag	UNP Q7NDN8
C	-2	SER	-	expression tag	UNP Q7NDN8
C	-1	ALA	-	expression tag	UNP Q7NDN8
C	0	ALA	-	expression tag	UNP Q7NDN8
C	1	ALA	-	expression tag	UNP Q7NDN8
C	27	SER	CYS	engineered mutation	UNP Q7NDN8
C	33	CYS	LYS	engineered mutation	UNP Q7NDN8
C	245	CYS	ASN	engineered mutation	UNP Q7NDN8
D	-3	GLY	-	expression tag	UNP Q7NDN8
D	-2	SER	-	expression tag	UNP Q7NDN8
D	-1	ALA	-	expression tag	UNP Q7NDN8
D	0	ALA	-	expression tag	UNP Q7NDN8
D	1	ALA	-	expression tag	UNP Q7NDN8
D	27	SER	CYS	engineered mutation	UNP Q7NDN8
D	33	CYS	LYS	engineered mutation	UNP Q7NDN8
D	245	CYS	ASN	engineered mutation	UNP Q7NDN8
E	-3	GLY	-	expression tag	UNP Q7NDN8
E	-2	SER	-	expression tag	UNP Q7NDN8
E	-1	ALA	-	expression tag	UNP Q7NDN8
E	0	ALA	-	expression tag	UNP Q7NDN8
E	1	ALA	-	expression tag	UNP Q7NDN8
E	27	SER	CYS	engineered mutation	UNP Q7NDN8
E	33	CYS	LYS	engineered mutation	UNP Q7NDN8
E	245	CYS	ASN	engineered mutation	UNP Q7NDN8
F	-3	GLY	-	expression tag	UNP Q7NDN8
F	-2	SER	-	expression tag	UNP Q7NDN8
F	-1	ALA	-	expression tag	UNP Q7NDN8
F	0	ALA	-	expression tag	UNP Q7NDN8
F	1	ALA	-	expression tag	UNP Q7NDN8
F	27	SER	CYS	engineered mutation	UNP Q7NDN8
F	33	CYS	LYS	engineered mutation	UNP Q7NDN8
F	245	CYS	ASN	engineered mutation	UNP Q7NDN8
G	-3	GLY	-	expression tag	UNP Q7NDN8
G	-2	SER	-	expression tag	UNP Q7NDN8
G	-1	ALA	-	expression tag	UNP Q7NDN8

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Chain	Residue	Modelled	Actual	Comment	Reference
G	0	ALA	-	expression tag	UNP Q7NDN8
G	1	ALA	-	expression tag	UNP Q7NDN8
G	27	SER	CYS	engineered mutation	UNP Q7NDN8
G	33	CYS	LYS	engineered mutation	UNP Q7NDN8
G	245	CYS	ASN	engineered mutation	UNP Q7NDN8
H	-3	GLY	-	expression tag	UNP Q7NDN8
H	-2	SER	-	expression tag	UNP Q7NDN8
H	-1	ALA	-	expression tag	UNP Q7NDN8
H	0	ALA	-	expression tag	UNP Q7NDN8
H	1	ALA	-	expression tag	UNP Q7NDN8
H	27	SER	CYS	engineered mutation	UNP Q7NDN8
H	33	CYS	LYS	engineered mutation	UNP Q7NDN8
H	245	CYS	ASN	engineered mutation	UNP Q7NDN8
I	-3	GLY	-	expression tag	UNP Q7NDN8
I	-2	SER	-	expression tag	UNP Q7NDN8
I	-1	ALA	-	expression tag	UNP Q7NDN8
I	0	ALA	-	expression tag	UNP Q7NDN8
I	1	ALA	-	expression tag	UNP Q7NDN8
I	27	SER	CYS	engineered mutation	UNP Q7NDN8
I	33	CYS	LYS	engineered mutation	UNP Q7NDN8
I	245	CYS	ASN	engineered mutation	UNP Q7NDN8
J	-3	GLY	-	expression tag	UNP Q7NDN8
J	-2	SER	-	expression tag	UNP Q7NDN8
J	-1	ALA	-	expression tag	UNP Q7NDN8
J	0	ALA	-	expression tag	UNP Q7NDN8
J	1	ALA	-	expression tag	UNP Q7NDN8
J	27	SER	CYS	engineered mutation	UNP Q7NDN8
J	33	CYS	LYS	engineered mutation	UNP Q7NDN8
J	245	CYS	ASN	engineered mutation	UNP Q7NDN8

- Molecule 2 is DIUNDECYL PHOSPHATIDYL CHOLINE (CCD ID: PLC) (formula: C₃₂H₆₅NO₈P).



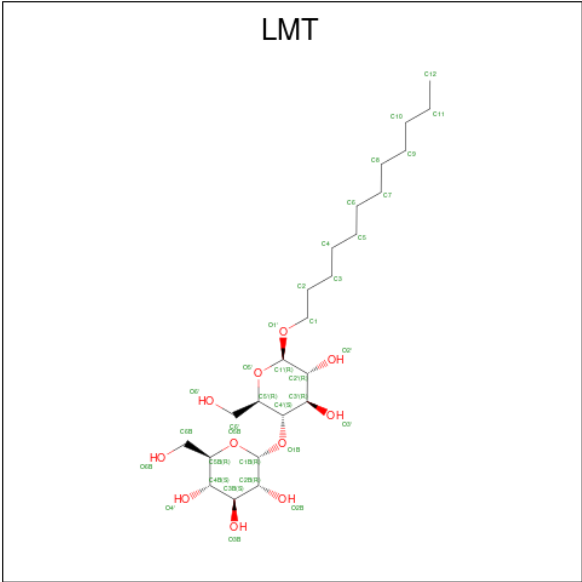
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total 33	C 23	N 1	O 8	P 1	0	0
2	A	1	Total C 9 9					0	0
2	A	1	Total C 19 19					0	0
2	A	1	Total C 7 7					0	0
2	B	1	Total 33	C 23	N 1	O 8	P 1	0	0
2	B	1	Total C 9 9					0	0
2	B	1	Total C 19 19					0	0
2	C	1	Total 33	C 23	N 1	O 8	P 1	0	0
2	C	1	Total C 9 9					0	0
2	D	1	Total 33	C 23	N 1	O 8	P 1	0	0
2	D	1	Total C 9 9					0	0
2	D	1	Total C 18 18					0	0
2	E	1	Total 33	C 23	N 1	O 8	P 1	0	0
2	E	1	Total C 9 9					0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	E	1	Total C 20 20	0	0
2	F	1	Total C N O P 33 23 1 8 1	0	0
2	F	1	Total C 9 9	0	0
2	F	1	Total C 7 7	0	0
2	G	1	Total C N O P 33 23 1 8 1	0	0
2	G	1	Total C 9 9	0	0
2	H	1	Total C N O P 33 23 1 8 1	0	0
2	H	1	Total C 9 9	0	0
2	H	1	Total C 18 18	0	0
2	H	1	Total C 19 19	0	0
2	I	1	Total C N O P 33 23 1 8 1	0	0
2	I	1	Total C 9 9	0	0
2	I	1	Total C 20 20	0	0
2	J	1	Total C N O P 33 23 1 8 1	0	0
2	J	1	Total C 9 9	0	0
2	J	1	Total C 19 19	0	0

- Molecule 3 is DODECYL-BETA-D-MALTOSIDE (CCD ID: LMT) (formula: C₂₄H₄₆O₁₁).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C 12 12	0	0
3	B	1	Total C 12 12	0	0
3	B	1	Total C 12 12	0	0
3	C	1	Total C 12 12	0	0
3	D	1	Total C 12 12	0	0
3	E	1	Total C 12 12	0	0
3	F	1	Total C 12 12	0	0
3	G	1	Total C 12 12	0	0
3	G	1	Total C 12 12	0	0
3	H	1	Total C 12 12	0	0
3	H	1	Total C 12 12	0	0
3	J	1	Total C 12 12	0	0

- Molecule 4 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total Na 1 1	0	0
4	F	1	Total Na 1 1	0	0

- Molecule 5 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total Cl 1 1	0	0
5	B	1	Total Cl 1 1	0	0
5	C	1	Total Cl 1 1	0	0
5	D	1	Total Cl 1 1	0	0
5	E	1	Total Cl 1 1	0	0
5	F	1	Total Cl 1 1	0	0
5	G	1	Total Cl 1 1	0	0
5	H	1	Total Cl 1 1	0	0
5	I	1	Total Cl 1 1	0	0
5	J	1	Total Cl 1 1	0	0

- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	13	Total O 13 13	0	0
6	B	5	Total O 5 5	0	0
6	C	10	Total O 10 10	0	0
6	D	15	Total O 15 15	0	0
6	E	20	Total O 20 20	0	0
6	F	6	Total O 6 6	0	0

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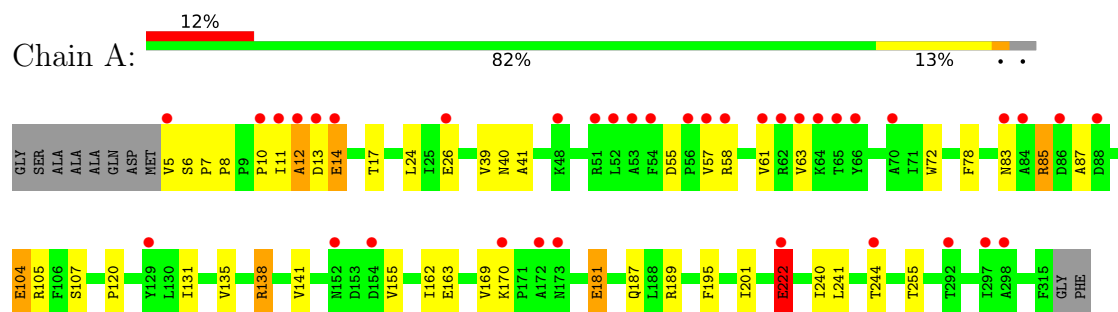
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	G	12	Total 12	O 12	0	0
6	H	11	Total 11	O 11	0	0
6	I	9	Total 9	O 9	0	0
6	J	9	Total 9	O 9	0	0

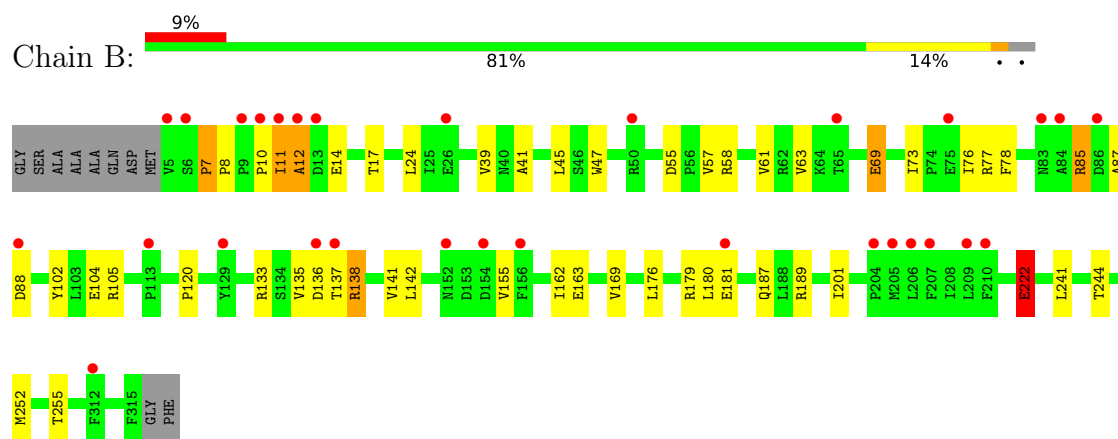
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

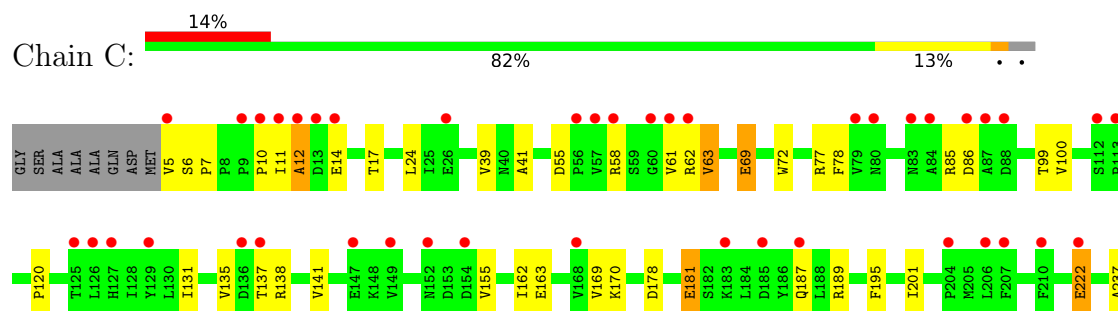
• Molecule 1: Glr4197 protein

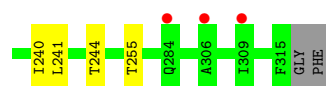


• Molecule 1: Glr4197 protein

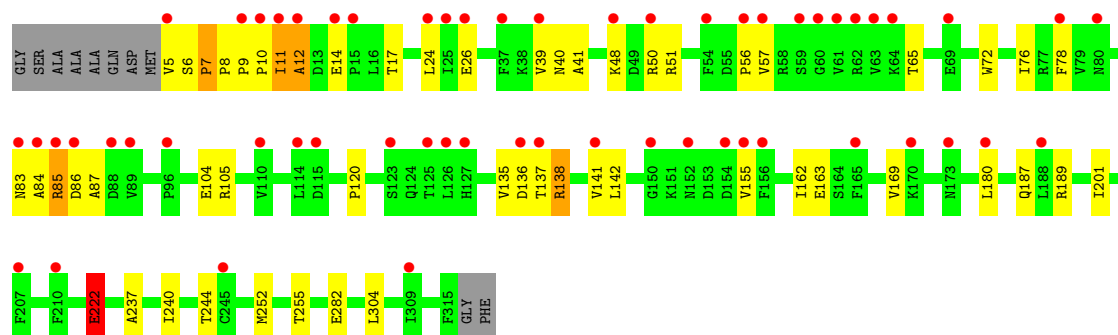
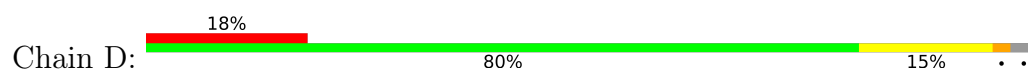


• Molecule 1: Glr4197 protein

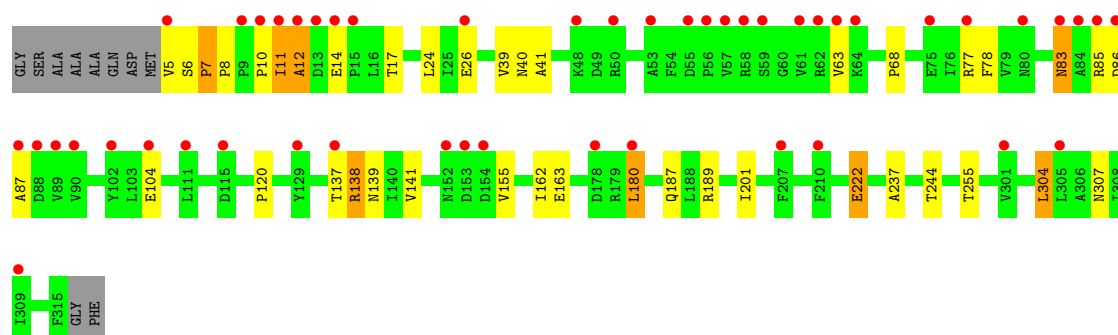
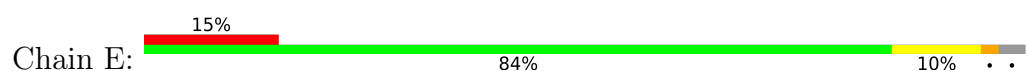




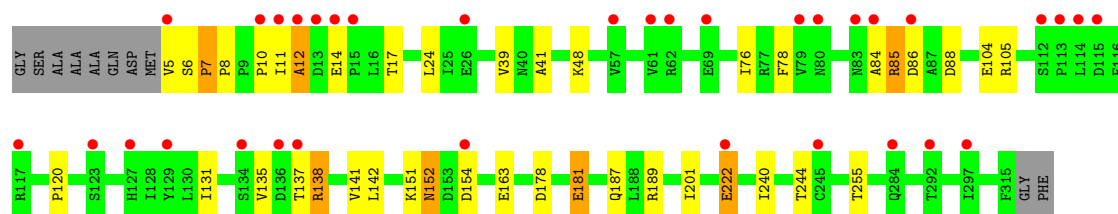
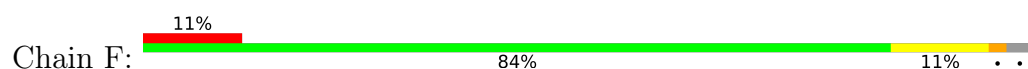
• Molecule 1: Glr4197 protein



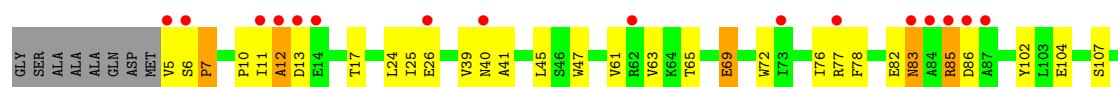
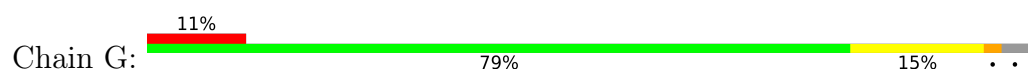
• Molecule 1: Glr4197 protein

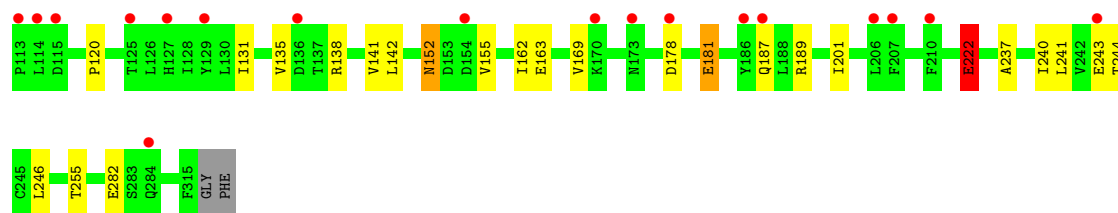


• Molecule 1: Glr4197 protein

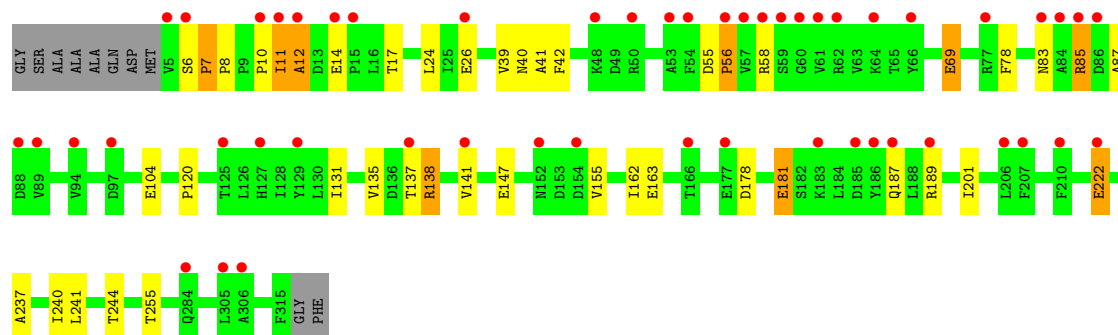
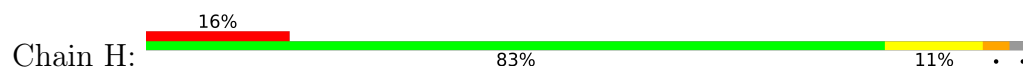


• Molecule 1: Glr4197 protein

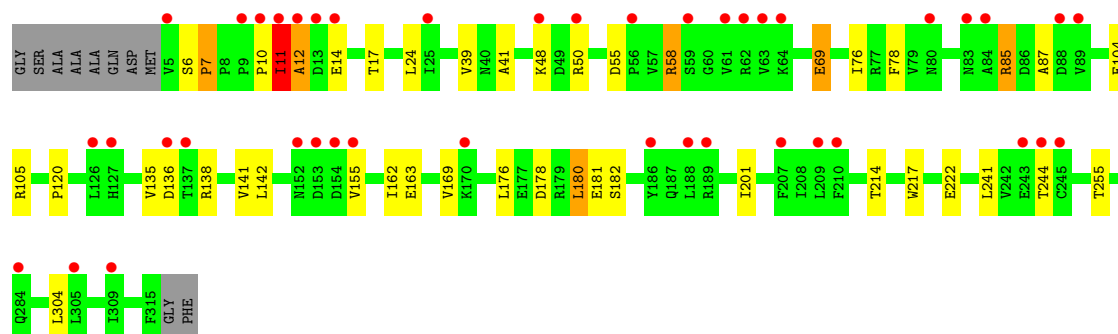
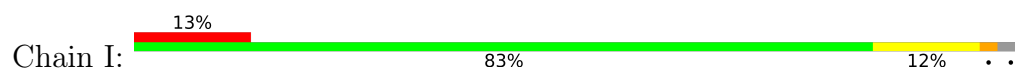




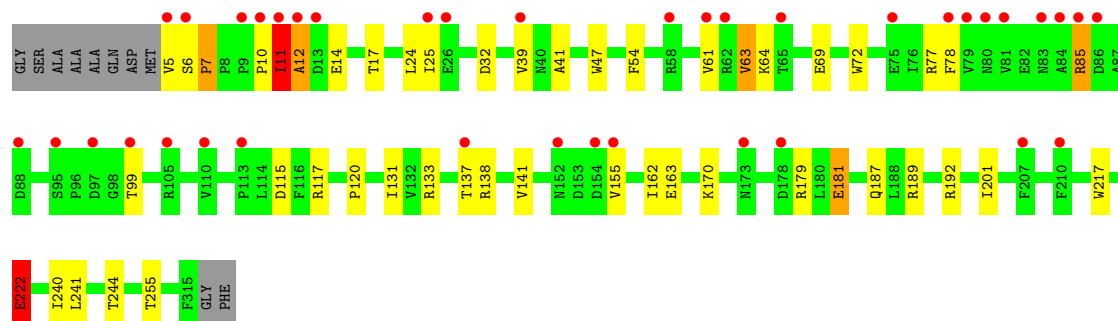
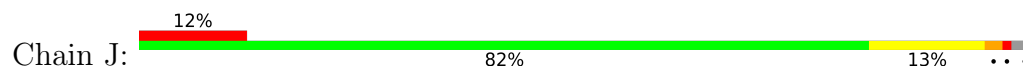
● Molecule 1: Glr4197 protein



● Molecule 1: Glr4197 protein



● Molecule 1: Glr4197 protein



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	182.13Å 133.49Å 319.69Å 90.00° 102.64° 90.00°	Depositor
Resolution (Å)	49.36 – 2.90 49.36 – 2.90	Depositor EDS
% Data completeness (in resolution range)	99.9 (49.36-2.90) 99.9 (49.36-2.90)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	0.05	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.48 (at 2.91Å)	Xtriage
Refinement program	BUSTER 2.11.1	Depositor
R, R_{free}	0.218 , 0.221 0.217 , 0.223	Depositor DCC
R_{free} test set	8306 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	58.8	Xtriage
Anisotropy	0.363	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 27.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	26063	wwPDB-VP
Average B, all atoms (Å ²)	63.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 26.25 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 2.7274e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: NA, PLC, LMT, CL

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.70	1/2588 (0.0%)	1.25	10/3539 (0.3%)
1	B	0.76	3/2588 (0.1%)	1.26	12/3539 (0.3%)
1	C	0.71	0/2588	1.23	6/3539 (0.2%)
1	D	0.74	2/2588 (0.1%)	1.27	17/3539 (0.5%)
1	E	0.70	0/2588	1.22	9/3539 (0.3%)
1	F	0.71	1/2588 (0.0%)	1.24	8/3539 (0.2%)
1	G	0.75	1/2599 (0.0%)	1.28	17/3553 (0.5%)
1	H	0.70	0/2588	1.22	10/3539 (0.3%)
1	I	0.80	3/2588 (0.1%)	1.23	11/3539 (0.3%)
1	J	0.70	1/2588 (0.0%)	1.21	8/3539 (0.2%)
All	All	0.73	12/25891 (0.0%)	1.24	108/35404 (0.3%)

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	181	GLU	CA-C	12.73	1.67	1.52
1	I	182	SER	N-CA	6.64	1.54	1.46
1	F	104	GLU	C-N	-6.58	1.23	1.33
1	B	104	GLU	C-N	-6.42	1.23	1.33
1	D	104	GLU	C-N	-6.30	1.23	1.33
1	B	47	TRP	C-N	-6.05	1.24	1.33
1	A	104	GLU	C-N	-5.36	1.25	1.33
1	I	180	LEU	C-N	-5.35	1.26	1.33
1	B	73	ILE	CG1-CD1	-5.20	1.31	1.51
1	D	180	LEU	CA-C	5.09	1.59	1.52
1	G	47	TRP	C-N	-5.02	1.26	1.33
1	J	47	TRP	C-N	-5.01	1.26	1.33

All (108) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	12	ALA	N-CA-C	-10.91	93.17	108.23
1	B	85	ARG	N-CA-C	9.52	124.73	110.64
1	H	7	PRO	N-CA-C	8.64	118.77	110.47
1	D	7	PRO	N-CA-C	8.64	118.77	110.47
1	D	12	ALA	N-CA-C	-8.56	96.51	109.94
1	F	85	ARG	N-CA-C	8.50	122.83	110.42
1	B	12	ALA	N-CA-C	-8.49	96.98	109.63
1	E	12	ALA	N-CA-C	-8.37	97.16	109.63
1	J	12	ALA	N-CA-C	-8.34	97.20	109.63
1	A	14	GLU	N-CA-C	8.14	121.31	110.08
1	A	12	ALA	N-CA-C	-8.11	97.21	109.94
1	H	12	ALA	N-CA-C	-8.05	97.63	109.63
1	C	12	ALA	N-CA-C	-8.05	97.31	109.94
1	F	12	ALA	N-CA-C	-7.72	98.12	109.63
1	I	181	GLU	N-CA-CB	-7.69	98.24	110.77
1	D	57	VAL	N-CA-C	7.48	117.56	110.53
1	D	7	PRO	O-C-N	7.33	124.68	121.31
1	I	181	GLU	CA-C-O	-7.32	111.27	120.20
1	G	85	ARG	N-CA-C	6.90	120.02	110.35
1	C	178	ASP	N-CA-C	6.71	120.83	112.24
1	G	152	ASN	CA-CB-CG	6.59	119.19	112.60
1	J	85	ARG	N-CA-C	6.59	119.58	110.35
1	I	169	VAL	N-CA-C	6.51	117.26	110.62
1	F	7	PRO	N-CA-C	6.42	117.45	110.58
1	E	7	PRO	N-CA-C	6.41	117.44	110.58
1	J	138	ARG	N-CA-C	6.29	118.52	109.14
1	F	138	ARG	N-CA-C	6.28	118.50	109.14
1	G	7	PRO	N-CA-C	6.28	117.30	110.58
1	F	41	ALA	N-CA-C	6.26	117.38	108.74
1	G	41	ALA	N-CA-C	6.25	118.27	108.96
1	J	11	ILE	N-CA-CB	6.23	117.69	110.65
1	A	12	ALA	CA-C-N	6.22	133.43	121.54
1	A	12	ALA	C-N-CA	6.22	133.43	121.54
1	B	11	ILE	N-CA-CB	6.22	117.68	110.65
1	D	180	LEU	CA-C-N	6.13	132.13	122.94
1	D	180	LEU	C-N-CA	6.13	132.13	122.94
1	I	178	ASP	N-CA-C	6.13	120.33	112.86
1	G	82	GLU	CA-C-N	-6.10	114.51	123.05
1	G	82	GLU	C-N-CA	-6.10	114.51	123.05
1	G	11	ILE	CA-C-N	6.10	133.90	121.95
1	G	11	ILE	C-N-CA	6.10	133.90	121.95
1	D	85	ARG	N-CA-C	6.09	118.88	110.35
1	D	169	VAL	N-CA-C	6.09	116.83	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	13	ASP	N-CA-C	6.08	119.65	112.72
1	G	169	VAL	N-CA-C	6.08	116.82	110.62
1	I	7	PRO	N-CA-C	6.07	117.08	110.58
1	H	138	ARG	N-CA-C	6.01	118.10	109.14
1	C	138	ARG	N-CA-C	6.01	118.10	109.14
1	B	169	VAL	N-CA-C	5.99	116.73	110.62
1	G	138	ARG	N-CA-C	5.99	118.51	109.41
1	A	85	ARG	N-CA-C	5.80	118.47	110.35
1	E	138	ARG	N-CA-C	5.77	117.74	109.14
1	I	12	ALA	N-CA-C	-5.77	98.51	110.80
1	G	83	ASN	CA-CB-CG	-5.75	106.85	112.60
1	A	169	VAL	N-CA-C	5.72	116.46	110.62
1	B	87	ALA	N-CA-C	5.71	118.40	108.76
1	F	88	ASP	CA-CB-CG	5.69	118.29	112.60
1	A	138	ARG	N-CA-C	5.67	118.31	109.52
1	I	11	ILE	N-CA-CB	5.64	117.41	110.64
1	B	47	TRP	CA-C-N	-5.62	113.63	122.73
1	B	47	TRP	C-N-CA	-5.62	113.63	122.73
1	C	170	LYS	N-CA-CB	-5.59	102.90	110.23
1	B	138	ARG	N-CA-C	5.59	117.47	109.14
1	B	88	ASP	CA-CB-CG	5.58	118.18	112.60
1	E	180	LEU	CA-C-N	5.58	131.31	122.94
1	E	180	LEU	C-N-CA	5.58	131.31	122.94
1	E	11	ILE	N-CA-CB	5.54	117.29	110.64
1	D	11	ILE	N-CA-CB	5.53	116.90	110.65
1	H	11	ILE	N-CA-CB	5.50	116.87	110.65
1	E	41	ALA	N-CA-C	5.50	117.15	108.96
1	I	87	ALA	N-CA-C	5.48	117.84	108.90
1	D	56	PRO	CA-C-N	5.48	127.57	120.56
1	D	56	PRO	C-N-CA	5.48	127.57	120.56
1	I	138	ARG	N-CA-C	5.47	117.73	109.41
1	I	41	ALA	N-CA-C	5.47	116.29	108.74
1	C	41	ALA	N-CA-C	5.47	117.10	108.96
1	G	47	TRP	CA-C-N	-5.45	114.76	122.94
1	G	47	TRP	C-N-CA	-5.45	114.76	122.94
1	D	138	ARG	N-CA-C	5.43	117.45	109.24
1	F	84	ALA	CA-C-N	5.43	130.04	121.56
1	F	84	ALA	C-N-CA	5.43	130.04	121.56
1	H	41	ALA	N-CA-C	5.39	116.99	108.96
1	D	87	ALA	N-CA-C	5.38	117.85	108.76
1	G	25	ILE	N-CA-C	-5.37	106.57	111.67
1	D	84	ALA	CA-C-N	5.35	129.29	121.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	84	ALA	C-N-CA	5.35	129.29	121.31
1	E	304	LEU	CD1-CG-CD2	5.32	122.49	110.80
1	J	7	PRO	N-CA-C	5.31	116.26	110.58
1	A	41	ALA	N-CA-C	5.30	116.86	108.96
1	G	222	GLU	CB-CG-CD	5.29	121.60	112.60
1	D	41	ALA	N-CA-C	5.27	116.82	108.96
1	H	87	ALA	N-CA-C	5.25	117.96	109.40
1	E	87	ALA	N-CA-C	5.24	117.44	108.90
1	H	56	PRO	CA-C-N	5.22	127.33	120.60
1	H	56	PRO	C-N-CA	5.22	127.33	120.60
1	B	41	ALA	N-CA-C	5.19	116.69	108.96
1	J	25	ILE	N-CA-C	-5.19	106.74	111.67
1	J	41	ALA	N-CA-C	5.18	116.69	108.96
1	B	7	PRO	N-CA-C	5.16	117.00	110.70
1	C	169	VAL	CA-C-O	5.13	126.24	120.03
1	A	87	ALA	N-CA-C	5.13	117.43	108.76
1	H	85	ARG	N-CA-C	5.13	117.53	110.35
1	D	222	GLU	CB-CG-CD	5.08	121.23	112.60
1	I	85	ARG	N-CA-C	5.08	117.40	110.24
1	B	222	GLU	CB-CG-CD	5.07	121.22	112.60
1	A	222	GLU	CB-CG-CD	5.07	121.21	112.60
1	J	222	GLU	CB-CG-CD	5.07	121.21	112.60
1	H	178	ASP	N-CA-C	5.05	118.70	112.24

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2520	0	2536	38	0
1	B	2520	0	2536	34	0
1	C	2520	0	2536	33	0
1	D	2520	0	2536	32	0
1	E	2520	0	2536	31	0
1	F	2520	0	2536	28	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	G	2531	0	2548	32	0
1	H	2520	0	2536	25	0
1	I	2520	0	2536	25	0
1	J	2520	0	2536	32	0
2	A	68	0	94	0	0
2	B	61	0	84	0	0
2	C	42	0	54	0	0
2	D	60	0	82	0	0
2	E	62	0	86	1	0
2	F	49	0	64	0	0
2	G	42	0	54	0	0
2	H	79	0	112	0	0
2	I	62	0	86	2	0
2	J	61	0	84	1	0
3	A	12	0	23	2	0
3	B	24	0	46	3	0
3	C	12	0	23	2	0
3	D	12	0	23	1	0
3	E	12	0	23	3	0
3	F	12	0	23	2	0
3	G	24	0	46	5	0
3	H	24	0	46	3	0
3	J	12	0	23	2	0
4	A	1	0	0	0	0
4	F	1	0	0	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	C	1	0	0	0	0
5	D	1	0	0	0	0
5	E	1	0	0	0	0
5	F	1	0	0	0	0
5	G	1	0	0	0	0
5	H	1	0	0	0	0
5	I	1	0	0	0	0
5	J	1	0	0	0	0
6	A	13	0	0	1	0
6	B	5	0	0	0	0
6	C	10	0	0	0	0
6	D	15	0	0	0	0
6	E	20	0	0	1	0
6	F	6	0	0	0	0
6	G	12	0	0	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	H	11	0	0	0	0
6	I	9	0	0	0	0
6	J	9	0	0	0	0
All	All	26063	0	26448	293	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 6.

All (293) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:48:LYS:HE2	1:I:50:ARG:NH1	1.48	1.27
1:D:48:LYS:HE2	1:D:50:ARG:CZ	1.91	1.01
1:D:48:LYS:HE2	1:D:50:ARG:NH2	1.81	0.94
1:J:54:PHE:CD1	1:J:64:LYS:HE2	2.04	0.92
1:A:63:VAL:HG21	1:B:136:ASP:OD2	1.71	0.90
1:I:78:PHE:HE2	1:I:85:ARG:HD3	1.35	0.90
1:A:78:PHE:HE2	1:A:85:ARG:HD3	1.37	0.87
1:B:78:PHE:HE2	1:B:85:ARG:HD3	1.39	0.87
1:G:243:GLU:O	6:G:334:HOH:O	1.93	0.86
1:C:12:ALA:HB3	1:C:14:GLU:OE1	1.76	0.85
1:E:78:PHE:HE2	1:E:85:ARG:HD3	1.40	0.84
1:D:78:PHE:HE2	1:D:85:ARG:HD3	1.42	0.84
1:J:54:PHE:CG	1:J:64:LYS:HE2	2.12	0.84
1:I:48:LYS:CE	1:I:50:ARG:NH1	2.38	0.84
1:H:78:PHE:HE2	1:H:85:ARG:HD3	1.42	0.84
1:J:78:PHE:HE2	1:J:85:ARG:HD3	1.41	0.83
1:C:78:PHE:HE2	1:C:85:ARG:HD3	1.42	0.83
1:B:78:PHE:CE2	1:B:85:ARG:HD3	2.14	0.82
1:I:78:PHE:CE2	1:I:85:ARG:HD3	2.15	0.81
1:G:78:PHE:HE2	1:G:85:ARG:HD3	1.44	0.81
1:B:133:ARG:NH2	1:B:181:GLU:OE2	2.14	0.80
1:A:78:PHE:CE2	1:A:85:ARG:HD3	2.16	0.80
1:F:78:PHE:HE2	1:F:85:ARG:HD3	1.45	0.80
1:D:78:PHE:CE2	1:D:85:ARG:HD3	2.19	0.77
1:D:105:ARG:HH11	1:E:77:ARG:HE	1.31	0.77
1:E:78:PHE:CE2	1:E:85:ARG:HD3	2.18	0.77
1:C:61:VAL:HG12	1:C:63:VAL:H	1.49	0.77
1:J:78:PHE:CE2	1:J:85:ARG:HD3	2.19	0.77
1:C:78:PHE:CE2	1:C:85:ARG:HD3	2.19	0.76
1:H:78:PHE:CE2	1:H:85:ARG:HD3	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:10:PRO:HB2	1:I:12:ALA:O	1.86	0.76
1:I:7:PRO:HG3	1:I:135:VAL:HG21	1.69	0.75
1:G:78:PHE:CE2	1:G:85:ARG:HD3	2.21	0.75
1:F:78:PHE:CE2	1:F:85:ARG:HD3	2.21	0.74
1:A:105:ARG:HH11	1:B:77:ARG:HE	1.35	0.73
1:E:244:THR:HG21	3:E:321:LMT:H31	1.69	0.72
1:C:62:ARG:NH2	1:D:136:ASP:OD1	2.23	0.72
1:J:10:PRO:HB2	1:J:12:ALA:O	1.89	0.72
1:A:63:VAL:HG21	1:B:136:ASP:CG	2.15	0.72
1:H:10:PRO:HB2	1:H:12:ALA:O	1.89	0.71
1:D:48:LYS:CE	1:D:50:ARG:CZ	2.66	0.71
1:B:10:PRO:HB2	1:B:12:ALA:O	1.91	0.71
1:F:10:PRO:HB2	1:F:12:ALA:O	1.91	0.71
1:A:63:VAL:HG11	1:B:136:ASP:OD2	1.92	0.70
1:B:85:ARG:O	1:B:85:ARG:HG3	1.92	0.69
1:D:86:ASP:OD2	1:E:83:ASN:ND2	2.25	0.69
1:I:48:LYS:HE2	1:I:50:ARG:HH12	1.53	0.69
1:E:10:PRO:HB2	1:E:12:ALA:O	1.93	0.68
1:C:86:ASP:OD2	1:D:83:ASN:ND2	2.25	0.68
1:J:131:ILE:HD11	1:J:181:GLU:HG2	1.75	0.68
1:E:68:PRO:O	6:E:339:HOH:O	2.10	0.67
1:A:11:ILE:HG13	1:A:12:ALA:H	1.59	0.67
1:I:48:LYS:HE2	1:I:50:ARG:CZ	2.21	0.67
1:I:48:LYS:HE3	1:I:50:ARG:HG3	1.77	0.67
1:J:244:THR:HG21	3:J:321:LMT:H31	1.76	0.66
1:G:246:LEU:O	6:G:334:HOH:O	2.12	0.66
1:F:105:ARG:HH11	1:G:77[A]:ARG:HE	1.44	0.66
1:C:237:ALA:HA	3:C:320:LMT:H102	1.78	0.65
1:A:61:VAL:HG12	1:A:63:VAL:H	1.62	0.64
1:C:10:PRO:HB2	1:C:12:ALA:O	1.98	0.63
1:H:237:ALA:HA	3:H:323:LMT:H102	1.79	0.63
1:D:10:PRO:HB2	1:D:12:ALA:O	1.99	0.63
1:H:7:PRO:HG2	1:H:137:THR:OG1	1.99	0.63
1:H:244:THR:HG21	3:H:323:LMT:H41	1.80	0.62
1:A:83:ASN:ND2	1:E:86:ASP:OD2	2.33	0.62
1:F:5:VAL:HG12	1:F:6:SER:N	2.15	0.62
1:B:7:PRO:HG3	1:B:135:VAL:HG21	1.81	0.61
1:A:244:THR:HG21	3:A:322:LMT:H22	1.83	0.61
3:A:322:LMT:H122	3:B:322:LMT:H21	1.82	0.60
1:G:187:GLN:OE1	1:G:189:ARG:NH2	2.34	0.60
3:F:321:LMT:H122	3:G:321:LMT:H21	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:24:LEU:HD22	1:E:39:VAL:CG2	2.31	0.60
1:F:244:THR:HG21	3:F:321:LMT:H22	1.84	0.60
1:B:187:GLN:OE1	1:B:189:ARG:NH2	2.35	0.60
1:E:5:VAL:HG12	1:E:6:SER:N	2.18	0.59
1:J:5:VAL:HG12	1:J:6:SER:N	2.17	0.59
1:A:63:VAL:CG2	1:B:136:ASP:OD2	2.45	0.59
1:E:139:ASN:ND2	1:E:180:LEU:HD12	2.18	0.59
1:H:55:ASP:HB3	1:H:58:ARG:HB2	1.84	0.59
1:C:61:VAL:CG1	1:C:63:VAL:O	2.50	0.59
1:G:10:PRO:HB2	1:G:12:ALA:O	2.03	0.58
1:A:61:VAL:CG1	1:A:63:VAL:O	2.51	0.58
1:J:54:PHE:CG	1:J:64:LYS:CE	2.87	0.58
1:D:14:GLU:N	1:D:14:GLU:OE1	2.37	0.57
1:C:24:LEU:HD22	1:C:39:VAL:CG2	2.33	0.57
1:C:61:VAL:HG11	1:C:63:VAL:O	2.04	0.57
1:D:187:GLN:OE1	1:D:189:ARG:NH2	2.36	0.57
1:H:131:ILE:HD11	1:H:181:GLU:HG2	1.85	0.57
1:A:131:ILE:HD11	1:A:181:GLU:HG2	1.86	0.57
1:F:187:GLN:OE1	1:F:189:ARG:NH2	2.38	0.56
1:H:187:GLN:OE1	1:H:189:ARG:NH2	2.38	0.56
1:A:195:PHE:HZ	1:B:252:MET:HE2	1.71	0.56
1:J:187:GLN:OE1	1:J:189:ARG:NH2	2.38	0.56
1:E:187:GLN:OE1	1:E:189:ARG:NH2	2.39	0.56
1:E:24:LEU:HD22	1:E:39:VAL:HG21	1.88	0.55
1:F:131:ILE:HD11	1:F:181:GLU:HG2	1.87	0.55
1:A:187:GLN:OE1	1:A:189:ARG:NH2	2.39	0.55
1:C:5:VAL:HG12	1:C:6:SER:N	2.22	0.55
1:D:5:VAL:HG12	1:D:6:SER:N	2.22	0.55
1:B:176:LEU:HB3	1:B:181:GLU:CD	2.32	0.54
1:J:61:VAL:HG11	1:J:63:VAL:O	2.08	0.54
1:B:61:VAL:HG22	1:B:63:VAL:H	1.72	0.54
1:B:105:ARG:HH11	1:C:77:ARG:HE	1.55	0.54
1:C:131:ILE:HD11	1:C:181:GLU:HG2	1.88	0.54
1:E:7:PRO:HG2	1:E:137:THR:OG1	2.07	0.54
1:B:24:LEU:HD22	1:B:39:VAL:CG2	2.38	0.54
1:C:5:VAL:CG1	1:C:72:TRP:HB2	2.38	0.54
1:G:131:ILE:HD11	1:G:181:GLU:HG2	1.89	0.54
1:B:69:GLU:H	1:B:69:GLU:CD	2.16	0.53
1:D:105:ARG:NH1	1:E:77:ARG:HE	2.04	0.53
1:B:14:GLU:N	1:B:14:GLU:OE2	2.39	0.53
1:I:48:LYS:CE	1:I:50:ARG:CZ	2.83	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:5:VAL:HG11	1:C:72:TRP:HB2	1.90	0.53
1:J:11:ILE:HG13	1:J:14:GLU:OE2	2.08	0.53
1:I:11:ILE:HG13	1:I:14:GLU:OE2	2.09	0.53
1:G:7:PRO:HG3	1:G:135:VAL:HG21	1.90	0.53
1:C:187:GLN:OE1	1:C:189:ARG:NH2	2.39	0.53
1:B:78:PHE:HE2	1:B:85:ARG:CD	2.18	0.52
1:G:26:GLU:HB2	1:G:40:ASN:HB3	1.91	0.52
1:A:6:SER:HB2	1:A:7:PRO:HD2	1.90	0.52
1:A:7:PRO:HG3	1:A:135:VAL:HG21	1.90	0.52
1:E:12:ALA:HB3	1:E:14:GLU:OE1	2.09	0.52
1:A:61:VAL:HG11	1:A:63:VAL:O	2.09	0.52
1:F:5:VAL:CG1	1:F:6:SER:H	2.22	0.52
1:G:24:LEU:HD22	1:G:39:VAL:CG2	2.40	0.52
1:C:7:PRO:HG2	1:C:137:THR:OG1	2.10	0.52
1:F:7:PRO:HG2	1:F:137:THR:OG1	2.10	0.52
1:F:24:LEU:HD22	1:F:39:VAL:CG2	2.40	0.51
1:F:5:VAL:HG12	1:F:6:SER:H	1.74	0.51
1:A:10:PRO:HB2	1:A:12:ALA:O	2.10	0.51
1:H:24:LEU:HD22	1:H:39:VAL:CG2	2.40	0.51
1:F:5:VAL:CG1	1:F:6:SER:N	2.74	0.51
1:G:178:ASP:OD1	1:G:178:ASP:O	2.29	0.51
1:H:6:SER:HB2	1:H:7:PRO:HD2	1.92	0.50
1:I:217:TRP:CD1	2:I:320:PLC:H2'1	2.45	0.50
1:B:179:ARG:O	1:B:181:GLU:OE1	2.30	0.50
1:J:24:LEU:HD22	1:J:39:VAL:CG2	2.41	0.50
1:A:63:VAL:CG1	1:B:136:ASP:OD2	2.60	0.49
1:C:62:ARG:NH2	1:D:136:ASP:CG	2.70	0.49
1:G:76:ILE:O	1:G:77[B]:ARG:HD3	2.12	0.49
1:A:24:LEU:HD22	1:A:39:VAL:CG2	2.43	0.49
1:I:24:LEU:HD22	1:I:39:VAL:CG2	2.43	0.49
1:B:222:GLU:CD	1:B:222:GLU:H	2.21	0.49
1:D:24:LEU:HD22	1:D:39:VAL:CG2	2.43	0.48
1:C:7:PRO:HG3	1:C:135:VAL:HG21	1.94	0.48
1:G:69:GLU:H	1:G:69:GLU:CD	2.20	0.48
1:J:61:VAL:CG1	1:J:63:VAL:O	2.62	0.48
1:A:5:VAL:HG12	1:A:72:TRP:HB2	1.95	0.48
1:C:12:ALA:HB3	1:C:14:GLU:CD	2.38	0.48
1:C:222:GLU:CD	1:C:222:GLU:H	2.22	0.48
1:J:5:VAL:CG1	1:J:6:SER:N	2.76	0.48
1:F:222:GLU:H	1:F:222:GLU:CD	2.21	0.48
1:G:222:GLU:CD	1:G:222:GLU:H	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:12:ALA:HB3	1:A:14:GLU:OE1	2.14	0.48
1:G:5:VAL:HG12	1:G:72:TRP:HB2	1.96	0.48
1:A:222:GLU:CD	1:A:222:GLU:H	2.22	0.47
1:H:222:GLU:CD	1:H:222:GLU:H	2.22	0.47
1:F:14:GLU:OE1	1:F:14:GLU:N	2.36	0.47
1:I:6:SER:HB2	1:I:7:PRO:HD2	1.95	0.47
1:E:120:PRO:HD3	1:E:255:THR:OG1	2.15	0.47
1:F:12:ALA:C	1:F:14:GLU:OE1	2.57	0.47
1:F:86:ASP:OD2	1:G:83:ASN:ND2	2.48	0.47
1:I:120:PRO:HD3	1:I:255:THR:OG1	2.15	0.47
1:C:5:VAL:CG1	1:C:6:SER:N	2.78	0.47
1:D:5:VAL:CG1	1:D:72:TRP:HB2	2.45	0.47
1:D:222:GLU:H	1:D:222:GLU:CD	2.22	0.47
1:J:222:GLU:CD	1:J:222:GLU:H	2.22	0.47
3:B:322:LMT:H22	3:E:321:LMT:H101	1.95	0.47
1:E:5:VAL:CG1	1:E:6:SER:N	2.77	0.47
3:G:321:LMT:H22	3:J:321:LMT:H101	1.96	0.47
1:H:120:PRO:HD3	1:H:255:THR:OG1	2.15	0.47
1:B:241:LEU:O	1:B:244:THR:OG1	2.33	0.46
1:D:6:SER:HB2	1:D:7:PRO:HD2	1.97	0.46
1:E:237:ALA:HA	3:E:321:LMT:H92	1.97	0.46
1:G:40:ASN:ND2	1:G:107:SER:HB3	2.31	0.46
1:D:9:PRO:HD3	1:D:51:ARG:NH1	2.31	0.46
1:J:5:VAL:CG1	1:J:6:SER:H	2.29	0.46
1:J:241:LEU:O	1:J:244:THR:OG1	2.32	0.46
1:C:120:PRO:HD3	1:C:255:THR:OG1	2.16	0.46
1:J:7:PRO:HG2	1:J:137:THR:OG1	2.15	0.46
1:C:55:ASP:HB3	1:C:58:ARG:HB2	1.98	0.46
1:F:24:LEU:HB2	1:F:151:LYS:HB2	1.97	0.46
1:C:195:PHE:HZ	1:D:252:MET:HE2	1.80	0.45
1:D:237:ALA:HA	3:D:321:LMT:H91	1.97	0.45
1:A:61:VAL:HG12	1:A:63:VAL:O	2.16	0.45
1:C:69:GLU:CD	1:C:69:GLU:H	2.24	0.45
1:E:222:GLU:CD	1:E:222:GLU:H	2.23	0.45
1:G:120:PRO:HD3	1:G:255:THR:OG1	2.15	0.45
1:B:120:PRO:HD3	1:B:255:THR:OG1	2.17	0.45
1:A:120:PRO:HD3	1:A:255:THR:OG1	2.16	0.45
1:I:85:ARG:NE	1:I:104:GLU:OE2	2.50	0.45
1:A:55:ASP:HB2	1:A:58:ARG:HH21	1.81	0.45
1:A:195:PHE:CZ	1:B:252:MET:HE2	2.50	0.45
1:F:120:PRO:HD3	1:F:255:THR:OG1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:5:VAL:CG1	1:G:72:TRP:HB2	2.47	0.45
1:H:42:PHE:HE2	1:I:176:LEU:HD21	1.82	0.45
1:I:105:ARG:HH11	1:J:77:ARG:HE	1.63	0.45
1:B:55:ASP:HB3	1:B:58:ARG:HG3	1.99	0.45
1:D:120:PRO:HD3	1:D:255:THR:OG1	2.17	0.45
1:F:152:ASN:HD21	1:F:154:ASP:HB2	1.81	0.45
1:F:178:ASP:O	1:F:178:ASP:OD1	2.34	0.45
1:G:40:ASN:HD22	1:G:107:SER:HB3	1.82	0.45
1:G:241:LEU:O	1:G:244:THR:OG1	2.34	0.45
1:H:69:GLU:CD	1:H:69:GLU:H	2.26	0.45
1:E:155:VAL:HG12	1:E:162:ILE:HD13	1.98	0.44
1:E:8:PRO:O	1:E:138:ARG:HD3	2.17	0.44
1:J:5:VAL:HG12	1:J:6:SER:H	1.83	0.44
1:B:7:PRO:HG2	1:B:137:THR:OG1	2.16	0.44
1:A:11:ILE:HG13	1:A:12:ALA:N	2.28	0.44
1:F:12:ALA:O	1:F:14:GLU:OE1	2.35	0.44
1:J:133:ARG:CZ	1:J:179:ARG:HB2	2.48	0.44
1:H:12:ALA:HB3	1:H:14:GLU:OE1	2.18	0.44
1:B:155:VAL:HG12	1:B:162:ILE:HD13	2.00	0.44
1:C:61:VAL:HG12	1:C:63:VAL:O	2.16	0.44
1:D:5:VAL:CG1	1:D:6:SER:N	2.80	0.44
1:F:85:ARG:O	1:F:85:ARG:HG3	2.18	0.44
1:G:86:ASP:OD2	1:H:83:ASN:ND2	2.51	0.44
1:J:120:PRO:HD3	1:J:255:THR:OG1	2.17	0.43
1:A:85:ARG:NE	1:A:104:GLU:OE2	2.51	0.43
1:G:237:ALA:HA	3:G:320:LMT:C9	2.48	0.43
1:I:55:ASP:HB3	1:I:58:ARG:HG2	2.00	0.43
1:C:155:VAL:HG12	1:C:162:ILE:HD13	1.99	0.43
1:J:155:VAL:HG12	1:J:162:ILE:HD13	2.00	0.43
1:C:241:LEU:O	1:C:244:THR:OG1	2.34	0.43
1:F:7:PRO:HG3	1:F:135:VAL:HG21	1.99	0.43
1:G:155:VAL:HG12	1:G:162:ILE:HD13	2.00	0.43
1:I:69:GLU:CD	1:I:69:GLU:H	2.26	0.43
1:J:61:VAL:HG12	1:J:63:VAL:N	2.34	0.43
1:F:8:PRO:O	1:F:138:ARG:HD3	2.19	0.43
1:A:105:ARG:NH1	1:B:77:ARG:HE	2.08	0.43
1:H:241:LEU:O	1:H:244:THR:OG1	2.36	0.43
1:H:85:ARG:NE	1:H:104:GLU:OE2	2.52	0.43
1:A:8:PRO:O	1:A:138:ARG:HD3	2.19	0.42
1:B:8:PRO:O	1:B:138:ARG:HD3	2.19	0.42
1:A:241:LEU:O	1:A:244:THR:OG1	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:240:ILE:O	1:D:244:THR:HG23	2.19	0.42
1:G:61:VAL:HG22	1:G:63:VAL:H	1.84	0.42
1:H:7:PRO:CG	1:H:137:THR:OG1	2.65	0.42
1:I:155:VAL:HG12	1:I:162:ILE:HD13	2.01	0.42
1:I:214:THR:HG22	2:I:320:PLC:H7'2	2.00	0.42
1:J:217:TRP:CD1	2:J:320:PLC:H2'1	2.54	0.42
1:E:26:GLU:HB2	1:E:40:ASN:HB3	2.01	0.42
1:J:115:ASP:OD1	1:J:117:ARG:NH1	2.47	0.42
1:D:14:GLU:O	1:D:138:ARG:NH2	2.33	0.42
1:H:240:ILE:O	1:H:244:THR:HG23	2.20	0.42
1:B:45:LEU:HB2	1:B:102:TYR:HB3	2.02	0.42
1:G:237:ALA:HA	3:G:320:LMT:H91	2.01	0.42
1:H:8:PRO:O	1:H:138:ARG:HD3	2.19	0.42
1:H:155:VAL:HG12	1:H:162:ILE:HD13	2.01	0.42
1:A:40:ASN:HD22	1:A:107:SER:HB3	1.85	0.42
1:D:7:PRO:HG3	1:D:135:VAL:HG21	2.01	0.42
1:I:76:ILE:HD12	1:I:142:LEU:HD21	2.01	0.42
1:B:76:ILE:HD12	1:B:142:LEU:HD21	2.02	0.42
1:A:240:ILE:O	1:A:244:THR:HG23	2.19	0.41
1:D:26:GLU:HB2	1:D:40:ASN:HB3	2.02	0.41
1:E:5:VAL:CG1	1:E:6:SER:H	2.33	0.41
1:F:240:ILE:O	1:F:244:THR:HG23	2.20	0.41
1:G:85:ARG:NE	1:G:104:GLU:OE2	2.53	0.41
1:A:155:VAL:HG12	1:A:162:ILE:HD13	2.02	0.41
1:E:85:ARG:NE	1:E:104:GLU:OE2	2.52	0.41
1:E:5:VAL:HG12	1:E:6:SER:H	1.85	0.41
1:A:83:ASN:O	6:A:332:HOH:O	2.22	0.41
1:F:7:PRO:CG	1:F:137:THR:OG1	2.69	0.41
1:G:45:LEU:HB2	1:G:102:TYR:HB3	2.03	0.41
1:C:6:SER:HB2	1:C:7:PRO:HD2	2.01	0.41
1:E:7:PRO:CG	1:E:137:THR:OG1	2.68	0.41
1:E:139:ASN:CG	1:E:180:LEU:HD12	2.45	0.41
1:G:76:ILE:HD12	1:G:142:LEU:HD21	2.03	0.41
1:I:241:LEU:O	1:I:244:THR:OG1	2.33	0.41
1:D:8:PRO:O	1:D:138:ARG:HD3	2.21	0.41
1:H:7:PRO:HG3	1:H:135:VAL:HG21	2.02	0.41
1:J:69:GLU:CD	1:J:69:GLU:H	2.28	0.41
1:B:176:LEU:O	1:B:181:GLU:OE2	2.39	0.41
3:B:322:LMT:H91	3:C:320:LMT:H52	2.03	0.41
1:C:240:ILE:O	1:C:244:THR:HG23	2.21	0.41
1:E:139:ASN:ND2	1:E:180:LEU:CD1	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:6:SER:HB2	1:G:7:PRO:HD2	2.02	0.41
1:H:26:GLU:HB2	1:H:40:ASN:HB3	2.03	0.41
1:D:155:VAL:HG12	1:D:162:ILE:HD13	2.02	0.41
3:G:321:LMT:H91	3:H:323:LMT:H52	2.03	0.41
1:J:5:VAL:CG1	1:J:72:TRP:HB2	2.51	0.41
1:D:76:ILE:HD12	1:D:142:LEU:HD21	2.03	0.40
1:F:76:ILE:HD12	1:F:142:LEU:HD21	2.03	0.40
1:I:55:ASP:CB	1:I:58:ARG:HE	2.34	0.40
1:A:26:GLU:HB2	1:A:40:ASN:HB3	2.03	0.40
1:J:133:ARG:NH1	1:J:179:ARG:HB2	2.36	0.40
1:J:240:ILE:O	1:J:244:THR:HG23	2.22	0.40
1:C:24:LEU:HD22	1:C:39:VAL:HG23	2.01	0.40
1:D:48:LYS:HE3	1:D:50:ARG:CG	2.51	0.40
1:G:240:ILE:O	1:G:244:THR:HG23	2.20	0.40
1:J:32:ASP:CG	1:J:192:ARG:HH22	2.29	0.40
1:E:6:SER:HB2	1:E:7:PRO:HD2	2.04	0.40
1:E:307:ASN:ND2	2:E:318:PLC:H6A1	2.36	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	309/321 (96%)	295 (96%)	13 (4%)	1 (0%)	36	65
1	B	309/321 (96%)	294 (95%)	15 (5%)	0	100	100
1	C	309/321 (96%)	297 (96%)	12 (4%)	0	100	100
1	D	309/321 (96%)	297 (96%)	12 (4%)	0	100	100
1	E	309/321 (96%)	293 (95%)	16 (5%)	0	100	100
1	F	309/321 (96%)	297 (96%)	12 (4%)	0	100	100
1	G	310/321 (97%)	297 (96%)	13 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	H	309/321 (96%)	294 (95%)	14 (4%)	1 (0%)	36	65
1	I	309/321 (96%)	290 (94%)	18 (6%)	1 (0%)	36	65
1	J	309/321 (96%)	294 (95%)	15 (5%)	0	100	100
All	All	3091/3210 (96%)	2948 (95%)	140 (4%)	3 (0%)	48	77

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	13	ASP
1	I	58	ARG
1	H	56	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	280/285 (98%)	272 (97%)	8 (3%)	37	71
1	B	280/285 (98%)	271 (97%)	9 (3%)	34	68
1	C	280/285 (98%)	269 (96%)	11 (4%)	28	63
1	D	280/285 (98%)	270 (96%)	10 (4%)	31	65
1	E	280/285 (98%)	271 (97%)	9 (3%)	34	68
1	F	280/285 (98%)	271 (97%)	9 (3%)	34	68
1	G	281/285 (99%)	271 (96%)	10 (4%)	31	65
1	H	280/285 (98%)	271 (97%)	9 (3%)	34	68
1	I	280/285 (98%)	270 (96%)	10 (4%)	31	65
1	J	280/285 (98%)	270 (96%)	10 (4%)	31	65
All	All	2801/2850 (98%)	2706 (97%)	95 (3%)	32	66

All (95) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	17	THR
1	A	57	VAL
1	A	141	VAL
1	A	163	GLU
1	A	170	LYS
1	A	181	GLU
1	A	201	ILE
1	A	222	GLU
1	B	11	ILE
1	B	17	THR
1	B	57	VAL
1	B	69	GLU
1	B	141	VAL
1	B	163	GLU
1	B	180	LEU
1	B	201	ILE
1	B	222	GLU
1	C	11	ILE
1	C	17	THR
1	C	63	VAL
1	C	69	GLU
1	C	99	THR
1	C	100	VAL
1	C	141	VAL
1	C	163	GLU
1	C	181	GLU
1	C	201	ILE
1	C	222	GLU
1	D	11	ILE
1	D	17	THR
1	D	65	THR
1	D	137	THR
1	D	141	VAL
1	D	163	GLU
1	D	201	ILE
1	D	222	GLU
1	D	282	GLU
1	D	304	LEU
1	E	11	ILE
1	E	17	THR
1	E	63	VAL
1	E	83	ASN
1	E	141	VAL

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Mol	Chain	Res	Type
1	E	163	GLU
1	E	201	ILE
1	E	222	GLU
1	E	304	LEU
1	F	11	ILE
1	F	17	THR
1	F	48	LYS
1	F	141	VAL
1	F	152	ASN
1	F	163	GLU
1	F	181	GLU
1	F	201	ILE
1	F	222	GLU
1	G	17	THR
1	G	65	THR
1	G	69	GLU
1	G	141	VAL
1	G	152	ASN
1	G	163	GLU
1	G	181	GLU
1	G	201	ILE
1	G	222	GLU
1	G	282	GLU
1	H	11	ILE
1	H	17	THR
1	H	69	GLU
1	H	141	VAL
1	H	147	GLU
1	H	163	GLU
1	H	181	GLU
1	H	201	ILE
1	H	222	GLU
1	I	11	ILE
1	I	17	THR
1	I	69	GLU
1	I	136	ASP
1	I	141	VAL
1	I	163	GLU
1	I	180	LEU
1	I	201	ILE
1	I	222	GLU
1	I	304	LEU

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Mol	Chain	Res	Type
1	J	11	ILE
1	J	17	THR
1	J	63	VAL
1	J	99	THR
1	J	141	VAL
1	J	163	GLU
1	J	170	LYS
1	J	181	GLU
1	J	201	ILE
1	J	222	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (18) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	40	ASN
1	A	307	ASN
1	C	40	ASN
1	C	307	ASN
1	D	307	ASN
1	E	139	ASN
1	E	307	ASN
1	F	83	ASN
1	F	307	ASN
1	G	40	ASN
1	G	83	ASN
1	G	193	GLN
1	G	307	ASN
1	H	83	ASN
1	H	307	ASN
1	J	83	ASN
1	J	193	GLN
1	J	307	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 54 ligands modelled in this entry, 12 are monoatomic - leaving 42 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	LMT	D	321	-	11,11,36	0.96	0	10,10,47	0.48	0
2	PLC	A	321	-	6,6,41	0.69	0	5,5,49	0.64	0
2	PLC	J	319	-	8,8,41	0.49	0	7,7,49	0.21	0
2	PLC	I	318	-	32,32,41	1.49	2 (6%)	38,40,49	1.45	5 (13%)
2	PLC	J	318	-	32,32,41	1.40	2 (6%)	38,40,49	1.38	4 (10%)
2	PLC	H	318	-	32,32,41	1.50	2 (6%)	38,40,49	1.61	6 (15%)
2	PLC	A	320	-	17,17,41	0.60	0	15,15,49	0.46	0
2	PLC	D	318	-	32,32,41	1.43	2 (6%)	38,40,49	1.69	6 (15%)
3	LMT	E	321	-	11,11,36	1.10	0	10,10,47	0.53	0
3	LMT	B	321	-	11,11,36	1.07	0	10,10,47	0.47	0
2	PLC	I	320	-	18,18,41	0.56	0	16,16,49	0.40	0
2	PLC	E	318	-	32,32,41	1.44	2 (6%)	38,40,49	1.35	3 (7%)
2	PLC	F	319	-	8,8,41	0.61	0	7,7,49	0.42	0
2	PLC	D	320	-	16,16,41	0.61	0	14,14,49	0.41	0
2	PLC	B	319	-	8,8,41	0.61	0	7,7,49	0.25	0
2	PLC	H	321	-	17,17,41	0.56	0	15,15,49	0.46	0
2	PLC	E	319	-	8,8,41	0.53	0	7,7,49	0.36	0
2	PLC	H	319	-	8,8,41	0.51	0	7,7,49	0.31	0
2	PLC	E	320	-	18,18,41	0.54	0	16,16,49	0.37	0
2	PLC	A	318	-	32,32,41	1.50	2 (6%)	38,40,49	1.54	5 (13%)
3	LMT	H	322	-	11,11,36	0.96	0	10,10,47	0.48	0
3	LMT	G	320	-	11,11,36	1.05	0	10,10,47	0.49	0
2	PLC	B	318	-	32,32,41	1.51	2 (6%)	38,40,49	1.60	6 (15%)
2	PLC	F	318	-	32,32,41	1.42	2 (6%)	38,40,49	1.40	4 (10%)
3	LMT	F	321	-	11,11,36	0.82	0	10,10,47	0.71	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	LMT	B	322	-	11,11,36	0.70	0	10,10,47	0.44	0
2	PLC	C	319	-	8,8,41	0.54	0	7,7,49	0.45	0
2	PLC	C	318	-	32,32,41	1.45	2 (6%)	38,40,49	1.51	4 (10%)
3	LMT	J	321	-	11,11,36	1.09	0	10,10,47	0.55	0
3	LMT	A	322	-	11,11,36	0.80	0	10,10,47	0.73	0
2	PLC	G	319	-	8,8,41	0.52	0	7,7,49	0.22	0
3	LMT	C	320	-	11,11,36	0.94	0	10,10,47	0.58	0
2	PLC	J	320	-	17,17,41	0.69	0	15,15,49	0.55	0
2	PLC	H	320	-	16,16,41	0.52	0	14,14,49	0.56	0
3	LMT	G	321	-	11,11,36	0.70	0	10,10,47	0.44	0
3	LMT	H	323	-	11,11,36	0.97	0	10,10,47	0.56	0
2	PLC	D	319	-	8,8,41	0.58	0	7,7,49	0.21	0
2	PLC	A	319	-	8,8,41	0.49	0	7,7,49	0.26	0
2	PLC	F	320	-	6,6,41	0.47	0	5,5,49	0.23	0
2	PLC	I	319	-	8,8,41	0.46	0	7,7,49	0.43	0
2	PLC	G	318	-	32,32,41	1.46	2 (6%)	38,40,49	1.63	6 (15%)
2	PLC	B	320	-	17,17,41	0.56	0	15,15,49	0.47	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	LMT	D	321	-	-	2/9/9/61	-
2	PLC	A	321	-	-	1/4/4/45	-
2	PLC	J	319	-	-	2/6/6/45	-
2	PLC	I	318	-	-	16/36/36/45	-
2	PLC	J	318	-	-	14/36/36/45	-
2	PLC	H	318	-	-	16/36/36/45	-
2	PLC	A	320	-	-	5/13/13/45	-
2	PLC	D	318	-	-	13/36/36/45	-
3	LMT	E	321	-	-	1/9/9/61	-
3	LMT	B	321	-	-	0/9/9/61	-
2	PLC	I	320	-	-	10/14/14/45	-
2	PLC	E	318	-	-	18/36/36/45	-
2	PLC	F	319	-	-	0/6/6/45	-
2	PLC	D	320	-	-	6/12/12/45	-
2	PLC	B	319	-	-	1/6/6/45	-
2	PLC	H	321	-	-	10/13/13/45	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	PLC	E	319	-	-	2/6/6/45	-
2	PLC	H	319	-	-	1/6/6/45	-
2	PLC	E	320	-	-	6/14/14/45	-
2	PLC	A	318	-	-	11/36/36/45	-
3	LMT	H	322	-	-	3/9/9/61	-
3	LMT	G	320	-	-	0/9/9/61	-
2	PLC	B	318	-	-	14/36/36/45	-
2	PLC	F	318	-	-	12/36/36/45	-
3	LMT	F	321	-	-	3/9/9/61	-
3	LMT	B	322	-	-	4/9/9/61	-
2	PLC	C	319	-	-	2/6/6/45	-
2	PLC	C	318	-	-	18/36/36/45	-
3	LMT	J	321	-	-	1/9/9/61	-
3	LMT	A	322	-	-	3/9/9/61	-
2	PLC	G	319	-	-	2/6/6/45	-
3	LMT	C	320	-	-	5/9/9/61	-
2	PLC	J	320	-	-	3/13/13/45	-
2	PLC	H	320	-	-	2/12/12/45	-
3	LMT	G	321	-	-	4/9/9/61	-
3	LMT	H	323	-	-	5/9/9/61	-
2	PLC	D	319	-	-	0/6/6/45	-
2	PLC	A	319	-	-	1/6/6/45	-
2	PLC	F	320	-	-	1/4/4/45	-
2	PLC	I	319	-	-	0/6/6/45	-
2	PLC	G	318	-	-	17/36/36/45	-
2	PLC	B	320	-	-	7/13/13/45	-

All (20) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	318	PLC	O2-C'	5.73	1.50	1.34
2	B	318	PLC	O2-C'	5.71	1.50	1.34
2	I	318	PLC	O2-C'	5.68	1.50	1.34
2	D	318	PLC	O2-C'	5.66	1.50	1.34
2	A	318	PLC	O2-C'	5.58	1.50	1.34
2	E	318	PLC	O2-C'	5.52	1.49	1.34
2	H	318	PLC	O2-C'	5.52	1.49	1.34
2	C	318	PLC	O2-C'	5.45	1.49	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	J	318	PLC	O2-C'	5.43	1.49	1.34
2	F	318	PLC	O2-C'	5.42	1.49	1.34
2	B	318	PLC	O3-CB	5.01	1.48	1.33
2	H	318	PLC	O3-CB	4.97	1.47	1.33
2	I	318	PLC	O3-CB	4.74	1.47	1.33
2	E	318	PLC	O3-CB	4.71	1.47	1.33
2	A	318	PLC	O3-CB	4.64	1.46	1.33
2	F	318	PLC	O3-CB	4.63	1.46	1.33
2	C	318	PLC	O3-CB	4.53	1.46	1.33
2	J	318	PLC	O3-CB	4.46	1.46	1.33
2	G	318	PLC	O3-CB	4.34	1.46	1.33
2	D	318	PLC	O3-CB	3.90	1.44	1.33

All (49) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	318	PLC	O2-C'-C1'	5.99	124.45	111.48
2	F	318	PLC	O2-C'-C1'	5.44	123.25	111.48
2	D	318	PLC	O2-C'-C1'	5.20	122.73	111.48
2	I	318	PLC	O2-C'-C1'	5.09	122.50	111.48
2	H	318	PLC	O2-C'-C1'	4.98	122.25	111.48
2	C	318	PLC	O2-C'-C1'	4.87	122.01	111.48
2	J	318	PLC	O2-C'-C1'	4.81	121.89	111.48
2	H	318	PLC	C2-O2-C'	4.78	129.24	117.80
2	E	318	PLC	O2-C'-C1'	4.76	121.78	111.48
2	G	318	PLC	O2-C'-C1'	4.71	121.67	111.48
2	D	318	PLC	C2-O2-C'	4.47	128.49	117.80
2	A	318	PLC	O2-C'-C1'	4.37	120.94	111.48
2	C	318	PLC	C2-O2-C'	4.36	128.24	117.80
2	G	318	PLC	C2-O2-C'	4.33	128.16	117.80
2	A	318	PLC	C2-O2-C'	4.27	128.01	117.80
2	J	318	PLC	O3-CB-C1B	4.07	124.25	111.83
2	H	318	PLC	O3-CB-C1B	3.99	124.01	111.83
2	G	318	PLC	O3-CB-C1B	3.93	123.82	111.83
2	D	318	PLC	O3-CB-C1B	3.87	123.62	111.83
2	A	318	PLC	O3-CB-C1B	3.78	123.37	111.83
2	C	318	PLC	O3-CB-C1B	3.56	122.69	111.83
2	F	318	PLC	O3-CB-C1B	3.51	122.53	111.83
2	B	318	PLC	O3-CB-C1B	3.46	122.39	111.83
2	I	318	PLC	O3-CB-C1B	3.39	122.18	111.83
2	D	318	PLC	O2-C2-C1	3.37	120.42	108.34
2	B	318	PLC	C2-O2-C'	3.35	125.81	117.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	318	PLC	O3-CB-C1B	3.27	121.81	111.83
2	D	318	PLC	O3-CB-OB	-3.24	115.53	123.63
2	G	318	PLC	O2-C2-C1	3.15	119.64	108.34
2	A	318	PLC	O2-C2-C1	3.09	119.42	108.34
2	G	318	PLC	O3-CB-OB	-2.80	116.62	123.63
2	A	318	PLC	O3-CB-OB	-2.77	116.71	123.63
2	C	318	PLC	O3-CB-OB	-2.75	116.74	123.63
2	B	318	PLC	C3-O3-CB	2.73	127.11	117.12
2	G	318	PLC	C3-O3-CB	2.70	126.99	117.12
2	H	318	PLC	O3-CB-OB	-2.53	117.30	123.63
2	I	318	PLC	O3-CB-OB	-2.49	117.39	123.63
2	I	318	PLC	C3-O3-CB	2.44	126.05	117.12
2	B	318	PLC	O2-C'-O'	-2.41	118.06	123.70
2	I	318	PLC	C2-O2-C'	2.40	123.55	117.80
2	J	318	PLC	O3-CB-OB	-2.37	117.70	123.63
2	D	318	PLC	O2-C'-O'	-2.35	118.21	123.70
2	H	318	PLC	O2-C2-C1	2.27	116.49	108.34
2	F	318	PLC	O2-C'-O'	-2.21	118.53	123.70
2	H	318	PLC	C3-O3-CB	2.21	125.20	117.12
2	F	318	PLC	O3-CB-OB	-2.14	118.26	123.63
2	B	318	PLC	O2-C2-C1	2.14	116.00	108.34
2	E	318	PLC	C2-O2-C'	2.13	122.89	117.80
2	J	318	PLC	C2-O2-C'	2.03	122.64	117.80

There are no chirality outliers.

All (242) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	318	PLC	C4-O4P-P-O1P
2	A	318	PLC	C4-O4P-P-O3P
2	B	318	PLC	C1'-C'-O2-C2
2	B	318	PLC	C1-O3P-P-O1P
2	B	318	PLC	C1-O3P-P-O2P
2	B	318	PLC	C1-O3P-P-O4P
2	B	318	PLC	C4-O4P-P-O1P
2	B	318	PLC	C4-O4P-P-O2P
2	B	318	PLC	C4-O4P-P-O3P
2	C	318	PLC	O4P-C4-C5-N
2	C	318	PLC	C1-O3P-P-O2P
2	C	318	PLC	C4-O4P-P-O1P
2	C	318	PLC	C4-O4P-P-O3P
2	D	318	PLC	O4P-C4-C5-N

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Mol	Chain	Res	Type	Atoms
2	D	318	PLC	C1-O3P-P-O1P
2	D	318	PLC	C1-O3P-P-O2P
2	D	318	PLC	C1-O3P-P-O4P
2	D	318	PLC	C4-O4P-P-O1P
2	D	318	PLC	C4-O4P-P-O3P
2	E	318	PLC	O4P-C4-C5-N
2	E	318	PLC	C1'-C'-O2-C2
2	E	318	PLC	C1-O3P-P-O1P
2	E	318	PLC	C1-O3P-P-O2P
2	E	318	PLC	C1-O3P-P-O4P
2	E	318	PLC	C4-O4P-P-O1P
2	E	318	PLC	C4-O4P-P-O3P
2	F	318	PLC	O4P-C4-C5-N
2	F	318	PLC	C4-O4P-P-O1P
2	F	318	PLC	C4-O4P-P-O2P
2	F	318	PLC	C4-O4P-P-O3P
2	G	318	PLC	C1-O3P-P-O2P
2	G	318	PLC	C1-O3P-P-O4P
2	G	318	PLC	C4-O4P-P-O1P
2	G	318	PLC	C4-O4P-P-O2P
2	G	318	PLC	C4-O4P-P-O3P
2	H	318	PLC	O4P-C4-C5-N
2	H	318	PLC	C1'-C'-O2-C2
2	H	318	PLC	C1-O3P-P-O2P
2	H	318	PLC	C1-O3P-P-O4P
2	H	318	PLC	C4-O4P-P-O1P
2	H	318	PLC	C4-O4P-P-O2P
2	H	318	PLC	C4-O4P-P-O3P
2	I	318	PLC	O4P-C4-C5-N
2	I	318	PLC	C1-O3P-P-O2P
2	I	318	PLC	C4-O4P-P-O1P
2	I	318	PLC	C4-O4P-P-O3P
2	J	318	PLC	O4P-C4-C5-N
2	J	318	PLC	C1-O3P-P-O2P
2	J	318	PLC	C1-O3P-P-O4P
2	J	318	PLC	C4-O4P-P-O1P
2	B	318	PLC	O'-C'-O2-C2
2	E	318	PLC	O'-C'-O2-C2
2	H	318	PLC	O'-C'-O2-C2
2	C	318	PLC	C1B-CB-O3-C3
2	E	318	PLC	C1B-CB-O3-C3
2	G	318	PLC	C1B-CB-O3-C3

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Mol	Chain	Res	Type	Atoms
2	H	318	PLC	C1B-CB-O3-C3
2	C	318	PLC	OB-CB-O3-C3
2	G	318	PLC	OB-CB-O3-C3
2	H	318	PLC	OB-CB-O3-C3
2	E	318	PLC	OB-CB-O3-C3
2	B	318	PLC	OB-CB-O3-C3
2	A	318	PLC	C1B-CB-O3-C3
2	B	318	PLC	C1B-CB-O3-C3
2	D	318	PLC	C1B-CB-O3-C3
2	J	318	PLC	C1B-CB-O3-C3
2	D	318	PLC	OB-CB-O3-C3
2	A	318	PLC	OB-CB-O3-C3
2	J	318	PLC	OB-CB-O3-C3
2	E	318	PLC	CB-C1B-C2B-C3B
2	G	318	PLC	CB-C1B-C2B-C3B
2	I	318	PLC	O'-C'-O2-C2
2	I	318	PLC	C1'-C'-O2-C2
2	I	320	PLC	C1B-C2B-C3B-C4B
2	A	320	PLC	C2B-C3B-C4B-C5B
3	B	322	LMT	C2-C3-C4-C5
3	G	321	LMT	C2-C3-C4-C5
2	D	318	PLC	C2B-C3B-C4B-C5B
2	A	320	PLC	C4B-C5B-C6B-C7B
2	G	318	PLC	C1-C2-C3-O3
2	H	321	PLC	C4B-C5B-C6B-C7B
2	B	320	PLC	C4B-C5B-C6B-C7B
2	J	318	PLC	C'-C1'-C2'-C3'
2	F	318	PLC	C1B-CB-O3-C3
3	A	322	LMT	C9-C10-C11-C12
3	F	321	LMT	C9-C10-C11-C12
2	C	318	PLC	C1'-C'-O2-C2
2	F	318	PLC	C1'-C'-O2-C2
2	C	318	PLC	O'-C'-O2-C2
2	F	318	PLC	O'-C'-O2-C2
2	H	318	PLC	C2B-C3B-C4B-C5B
2	F	318	PLC	OB-CB-O3-C3
2	B	320	PLC	C1'-C2'-C3'-C4'
2	B	318	PLC	C3B-C4B-C5B-C6B
2	J	318	PLC	C2'-C3'-C4'-C5'
2	I	320	PLC	C5B-C6B-C7B-C8B
2	E	318	PLC	C1'-C2'-C3'-C4'
2	E	320	PLC	C4B-C5B-C6B-C7B

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Mol	Chain	Res	Type	Atoms
2	I	318	PLC	C2B-C3B-C4B-C5B
2	E	318	PLC	C2B-C3B-C4B-C5B
2	H	321	PLC	C1B-C2B-C3B-C4B
2	A	318	PLC	C1-C2-O2-C'
2	D	318	PLC	C1-C2-O2-C'
2	G	318	PLC	C1-C2-O2-C'
2	H	318	PLC	O3P-C1-C2-O2
2	E	320	PLC	C2B-C3B-C4B-C5B
2	C	319	PLC	C5'-C6'-C7'-C8'
2	B	318	PLC	C4B-C5B-C6B-C7B
2	A	318	PLC	C2B-C3B-C4B-C5B
2	H	321	PLC	C5B-C6B-C7B-C8B
2	E	318	PLC	C4B-C5B-C6B-C7B
2	D	320	PLC	C2B-C3B-C4B-C5B
2	I	320	PLC	C6'-C7'-C8'-C9'
2	G	318	PLC	O'-C'-O2-C2
2	J	318	PLC	C4B-C5B-C6B-C7B
2	D	320	PLC	C5B-C6B-C7B-C8B
2	H	321	PLC	C2B-C3B-C4B-C5B
2	I	318	PLC	C1B-CB-O3-C3
2	G	318	PLC	C1'-C'-O2-C2
2	H	321	PLC	CB-C1B-C2B-C3B
2	H	321	PLC	C1'-C2'-C3'-C4'
2	H	321	PLC	C6B-C7B-C8B-C9B
2	J	319	PLC	C2'-C3'-C4'-C5'
2	B	320	PLC	C4'-C5'-C6'-C7'
2	F	318	PLC	CB-C1B-C2B-C3B
2	A	321	PLC	C'-C1'-C2'-C3'
3	H	323	LMT	C1-C2-C3-C4
2	I	320	PLC	C'-C1'-C2'-C3'
2	F	318	PLC	C4B-C5B-C6B-C7B
2	C	318	PLC	C1-C2-C3-O3
2	H	318	PLC	C1-C2-C3-O3
2	E	320	PLC	C6'-C7'-C8'-C9'
2	C	318	PLC	C2B-C3B-C4B-C5B
2	D	320	PLC	C1B-C2B-C3B-C4B
3	F	321	LMT	C2-C3-C4-C5
3	A	322	LMT	C2-C3-C4-C5
2	I	320	PLC	C1'-C2'-C3'-C4'
3	B	322	LMT	C6-C7-C8-C9
3	G	321	LMT	C6-C7-C8-C9
3	H	323	LMT	C2-C3-C4-C5

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Mol	Chain	Res	Type	Atoms
3	C	320	LMT	C1-C2-C3-C4
2	B	320	PLC	C6B-C7B-C8B-C9B
2	G	318	PLC	C4B-C5B-C6B-C7B
2	I	318	PLC	O2-C'-C1'-C2'
2	E	319	PLC	C5'-C6'-C7'-C8'
3	C	320	LMT	C2-C3-C4-C5
2	I	318	PLC	OB-CB-O3-C3
2	J	318	PLC	C3B-C4B-C5B-C6B
3	C	320	LMT	C3-C4-C5-C6
2	J	318	PLC	C1'-C'-O2-C2
2	J	318	PLC	O'-C'-O2-C2
2	A	319	PLC	C6'-C7'-C8'-C9'
2	E	320	PLC	C1B-C2B-C3B-C4B
2	H	318	PLC	C1'-C2'-C3'-C4'
3	G	321	LMT	C4-C5-C6-C7
2	B	320	PLC	C'-C1'-C2'-C3'
2	A	320	PLC	C'-C1'-C2'-C3'
2	C	318	PLC	O2-C2-C3-O3
2	G	318	PLC	C1'-C2'-C3'-C4'
2	E	320	PLC	C4'-C5'-C6'-C7'
2	J	320	PLC	C4B-C5B-C6B-C7B
3	B	322	LMT	C4-C5-C6-C7
2	H	321	PLC	C4'-C5'-C6'-C7'
2	A	318	PLC	O4P-C4-C5-N
2	G	318	PLC	O4P-C4-C5-N
2	A	318	PLC	C4B-C5B-C6B-C7B
2	I	320	PLC	C2'-C3'-C4'-C5'
2	I	320	PLC	C4'-C5'-C6'-C7'
3	C	320	LMT	C6-C7-C8-C9
3	H	323	LMT	C6-C7-C8-C9
3	E	321	LMT	C1-C2-C3-C4
2	C	318	PLC	O3P-C1-C2-O2
2	D	320	PLC	C2'-C3'-C4'-C5'
2	J	319	PLC	C1'-C2'-C3'-C4'
3	J	321	LMT	C1-C2-C3-C4
3	H	323	LMT	C3-C4-C5-C6
2	D	318	PLC	O'-C'-O2-C2
2	B	320	PLC	C3B-C4B-C5B-C6B
2	A	318	PLC	C4-O4P-P-O2P
2	C	318	PLC	C1-O3P-P-O1P
2	C	318	PLC	C1-O3P-P-O4P
2	C	318	PLC	C4-O4P-P-O2P

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Mol	Chain	Res	Type	Atoms
2	D	318	PLC	C4-O4P-P-O2P
2	E	318	PLC	C4-O4P-P-O2P
2	G	318	PLC	C1-O3P-P-O1P
2	H	318	PLC	C1-O3P-P-O1P
2	I	318	PLC	C1-O3P-P-O1P
2	I	318	PLC	C1-O3P-P-O4P
2	I	318	PLC	C4-O4P-P-O2P
2	J	318	PLC	C1-O3P-P-O1P
2	J	320	PLC	C'-C1'-C2'-C3'
2	I	320	PLC	C3'-C4'-C5'-C6'
2	I	320	PLC	C4B-C5B-C6B-C7B
3	C	320	LMT	C4-C5-C6-C7
2	E	318	PLC	C1-C2-O2-C'
2	H	318	PLC	C1-C2-O2-C'
2	B	319	PLC	C5'-C6'-C7'-C8'
2	A	318	PLC	CB-C1B-C2B-C3B
3	B	322	LMT	C5-C6-C7-C8
2	H	321	PLC	C'-C1'-C2'-C3'
2	D	320	PLC	C'-C1'-C2'-C3'
3	G	321	LMT	C5-C6-C7-C8
3	H	323	LMT	C4-C5-C6-C7
2	E	318	PLC	C2'-C3'-C4'-C5'
2	H	320	PLC	C'-C1'-C2'-C3'
2	F	320	PLC	C'-C1'-C2'-C3'
2	A	318	PLC	O2-C'-C1'-C2'
2	E	319	PLC	C4'-C5'-C6'-C7'
2	B	320	PLC	C2B-C3B-C4B-C5B
3	A	322	LMT	C6-C7-C8-C9
3	H	322	LMT	C6-C7-C8-C9
3	D	321	LMT	C6-C7-C8-C9
3	F	321	LMT	C6-C7-C8-C9
3	H	322	LMT	C5-C6-C7-C8
2	I	318	PLC	C3B-C4B-C5B-C6B
2	E	320	PLC	CB-C1B-C2B-C3B
2	J	318	PLC	C3'-C4'-C5'-C6'
2	C	319	PLC	C1'-C2'-C3'-C4'
2	E	318	PLC	C1-C2-C3-O3
3	D	321	LMT	C5-C6-C7-C8
2	H	321	PLC	C5'-C6'-C7'-C8'
2	G	319	PLC	C2'-C3'-C4'-C5'
2	H	320	PLC	C6B-C7B-C8B-C9B
2	H	319	PLC	C1'-C2'-C3'-C4'

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Mol	Chain	Res	Type	Atoms
2	D	320	PLC	C3B-C4B-C5B-C6B
2	G	319	PLC	C4'-C5'-C6'-C7'
2	F	318	PLC	C3B-C4B-C5B-C6B
2	F	318	PLC	C2'-C3'-C4'-C5'
2	B	318	PLC	O4P-C4-C5-N
2	D	318	PLC	C1'-C'-O2-C2
2	I	320	PLC	C3B-C4B-C5B-C6B
2	C	318	PLC	C4B-C5B-C6B-C7B
2	J	320	PLC	C5B-C6B-C7B-C8B
2	B	318	PLC	C1-C2-O2-C'
2	C	318	PLC	C3-C2-O2-C'
2	C	318	PLC	CB-C1B-C2B-C3B
2	G	318	PLC	O3P-C1-C2-O2
2	A	320	PLC	C6B-C7B-C8B-C9B
2	I	318	PLC	O'-C'-C1'-C2'
2	A	320	PLC	C1B-C2B-C3B-C4B
2	I	318	PLC	C1'-C2'-C3'-C4'
3	H	322	LMT	C2-C3-C4-C5

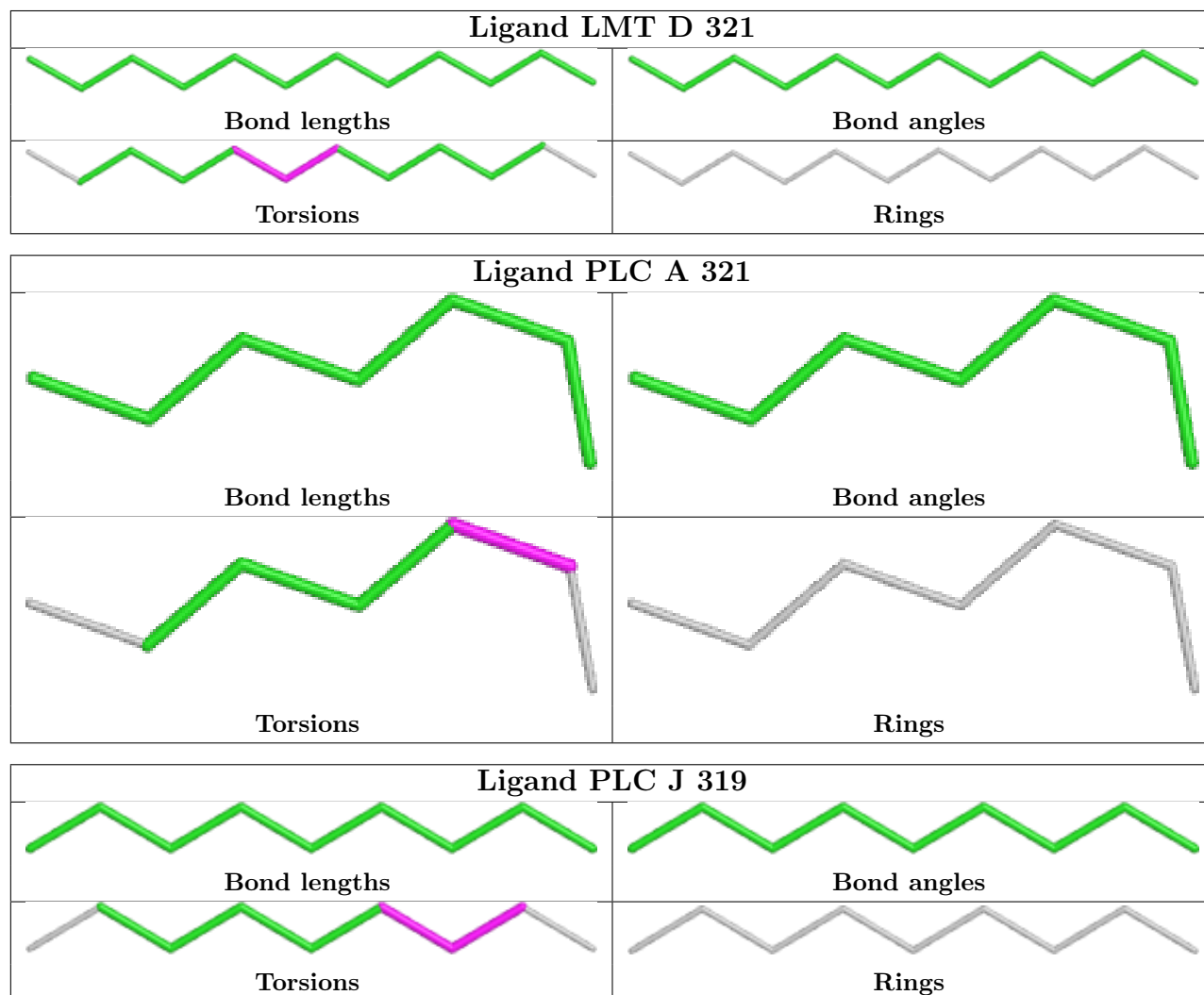
There are no ring outliers.

13 monomers are involved in 21 short contacts:

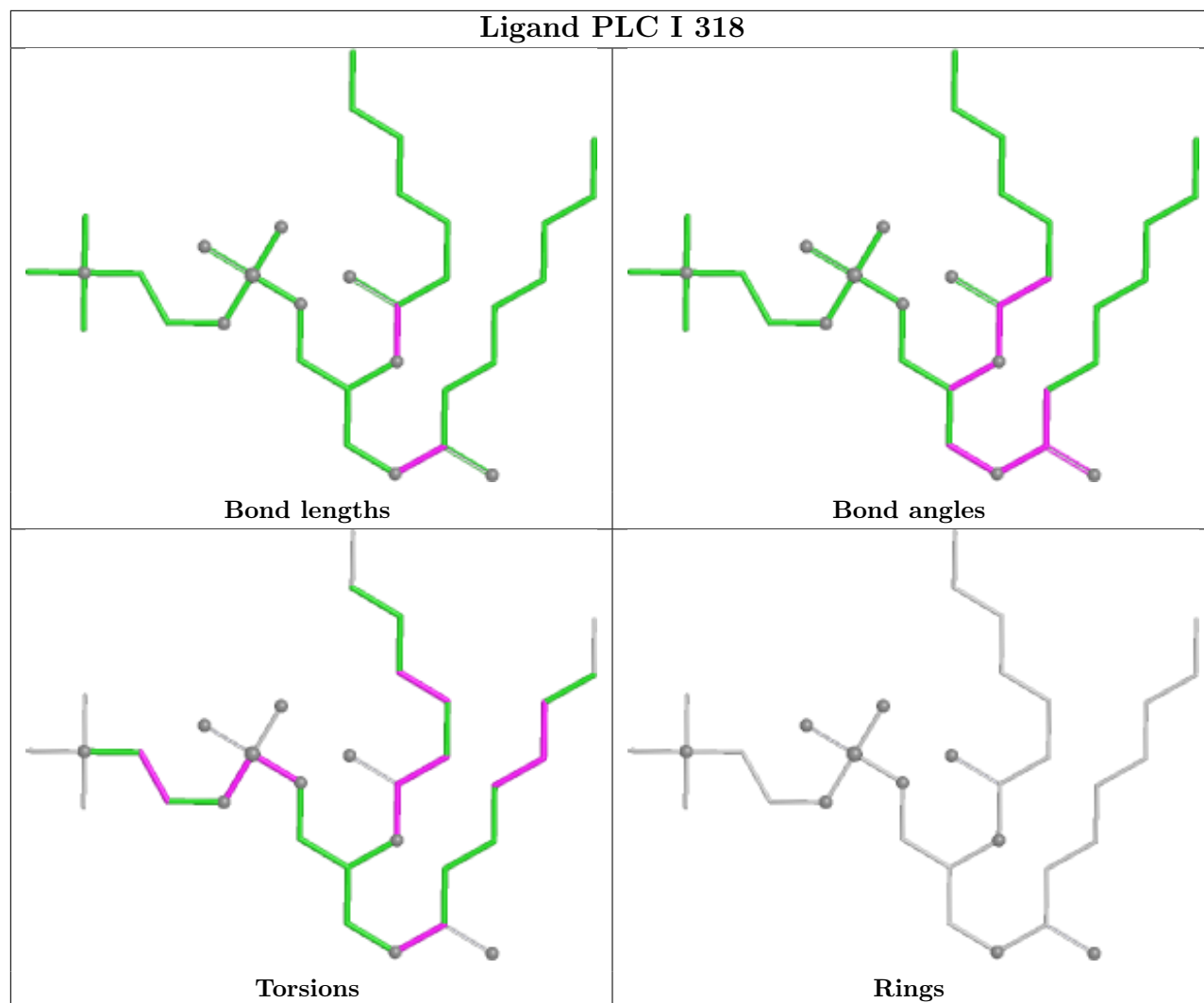
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	321	LMT	1	0
3	E	321	LMT	3	0
2	I	320	PLC	2	0
2	E	318	PLC	1	0
3	G	320	LMT	2	0
3	F	321	LMT	2	0
3	B	322	LMT	3	0
3	J	321	LMT	2	0
3	A	322	LMT	2	0
3	C	320	LMT	2	0
2	J	320	PLC	1	0
3	G	321	LMT	3	0
3	H	323	LMT	3	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier.

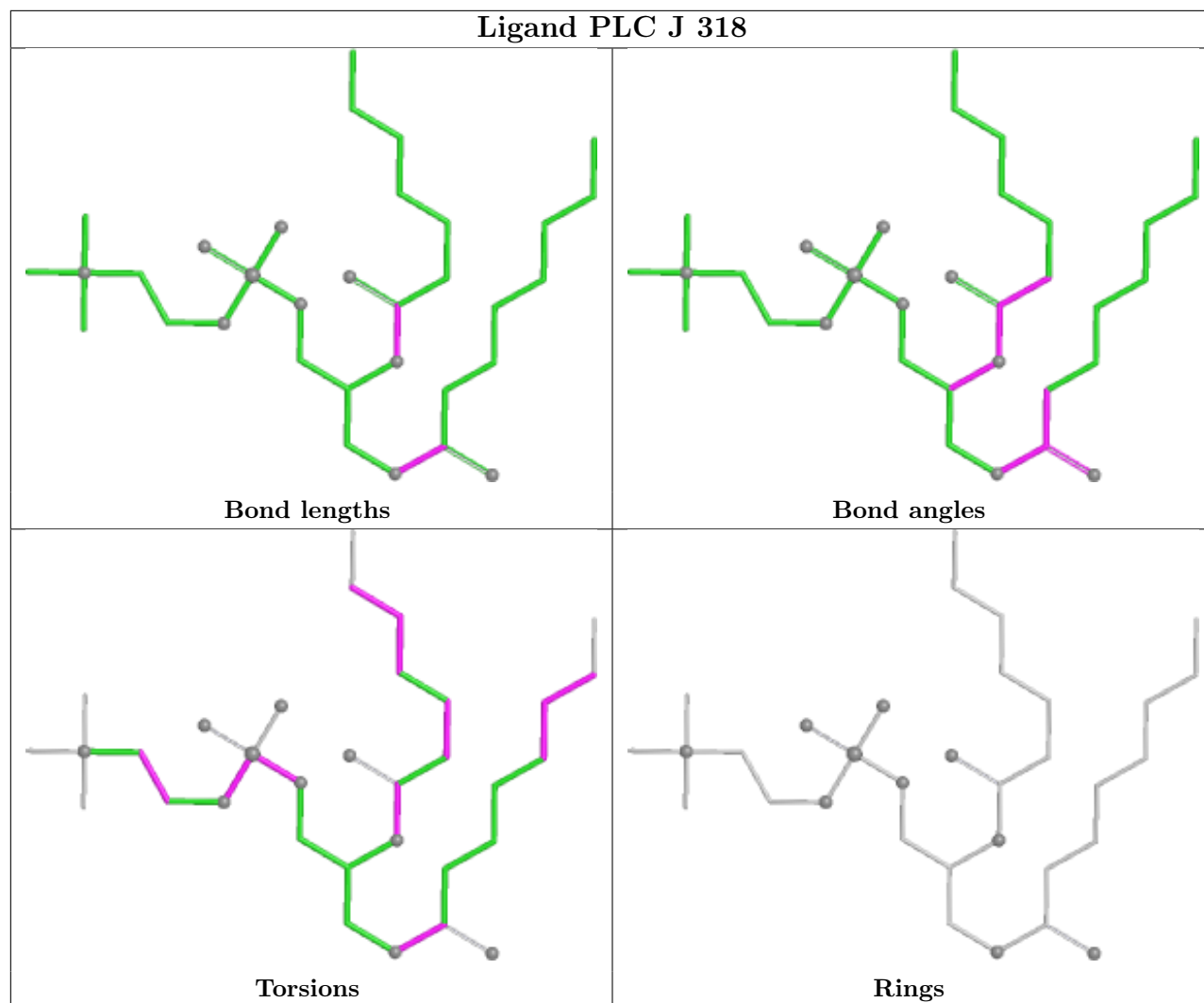
Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

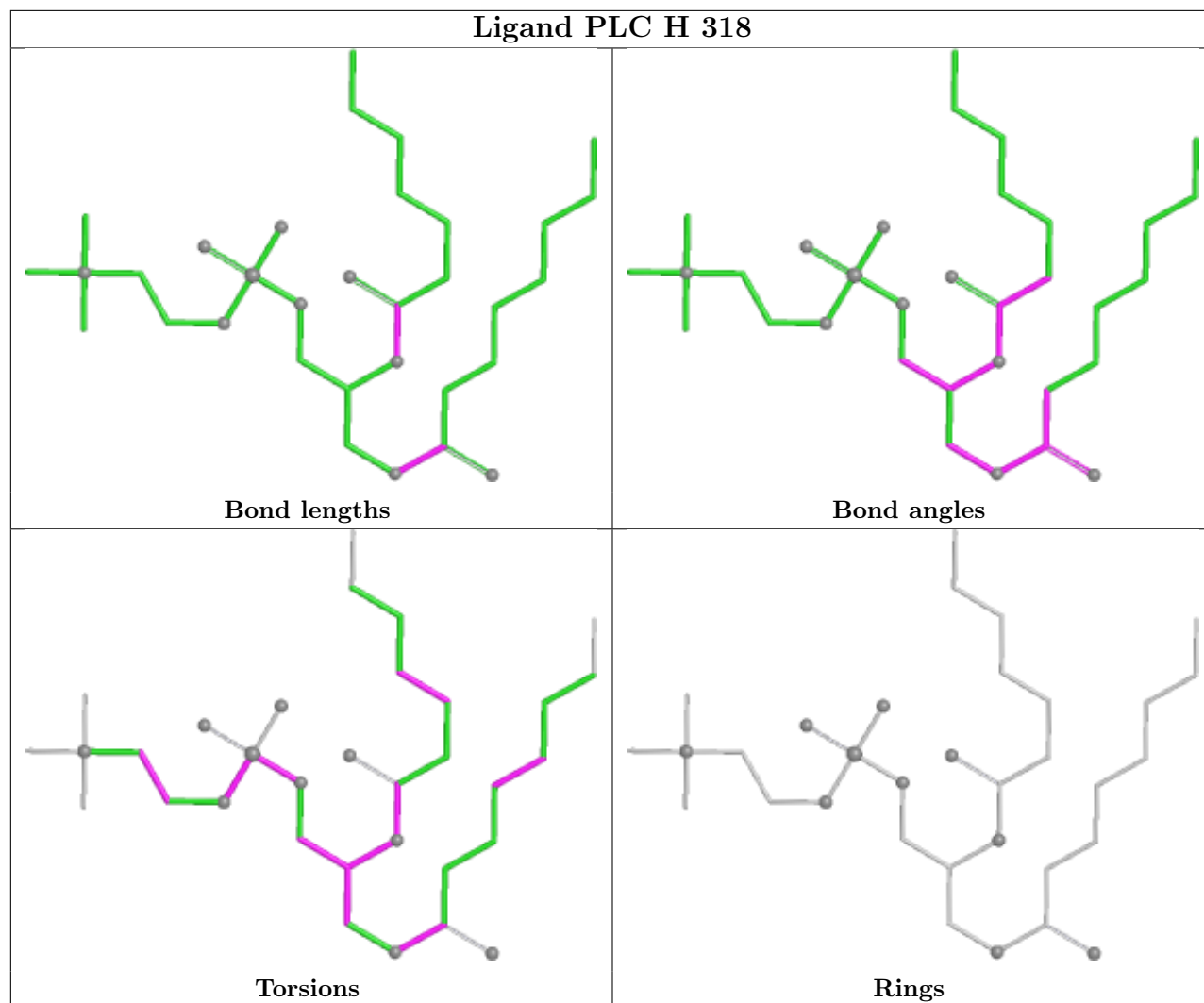


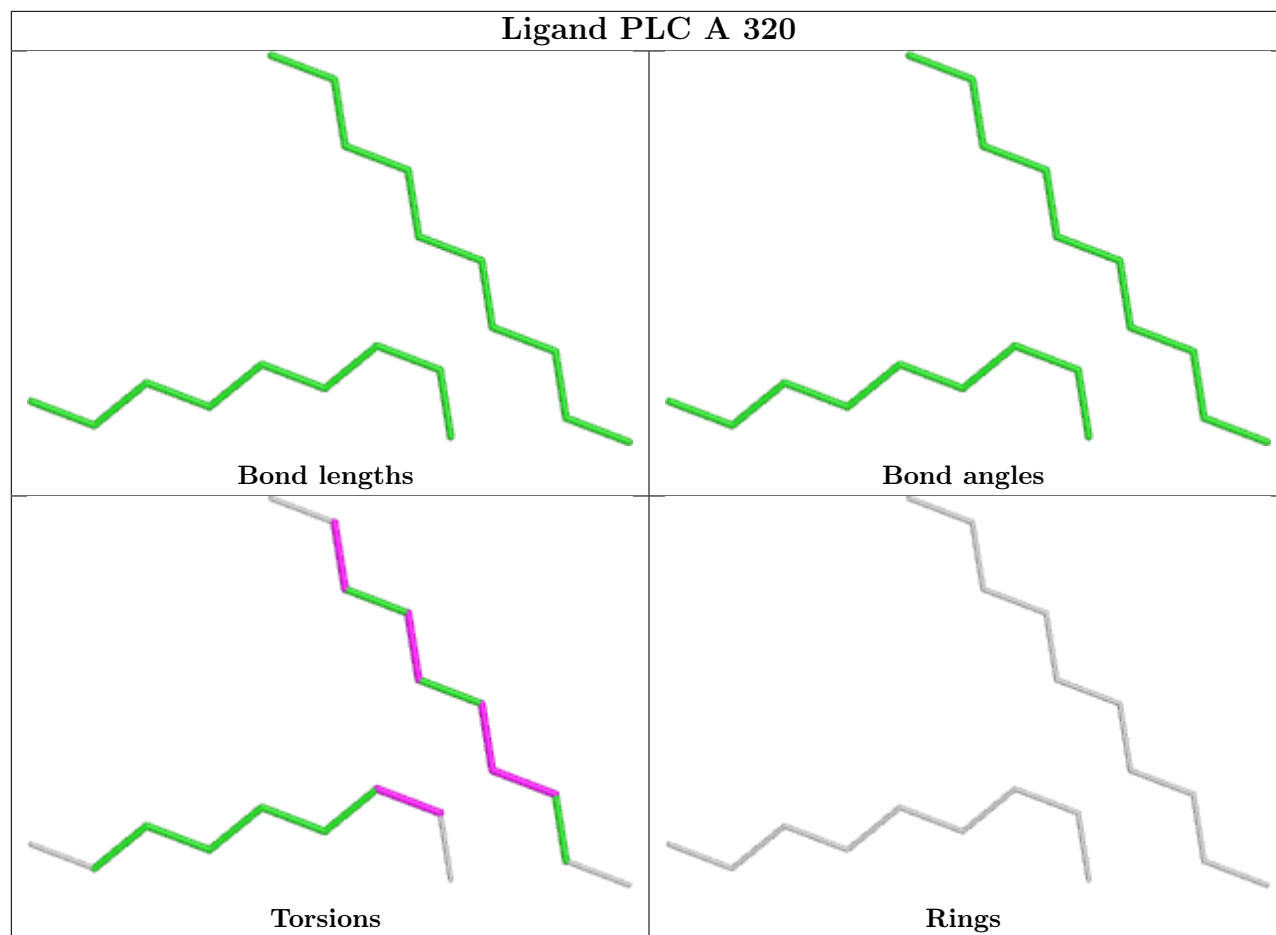
Ligand PLC I 318



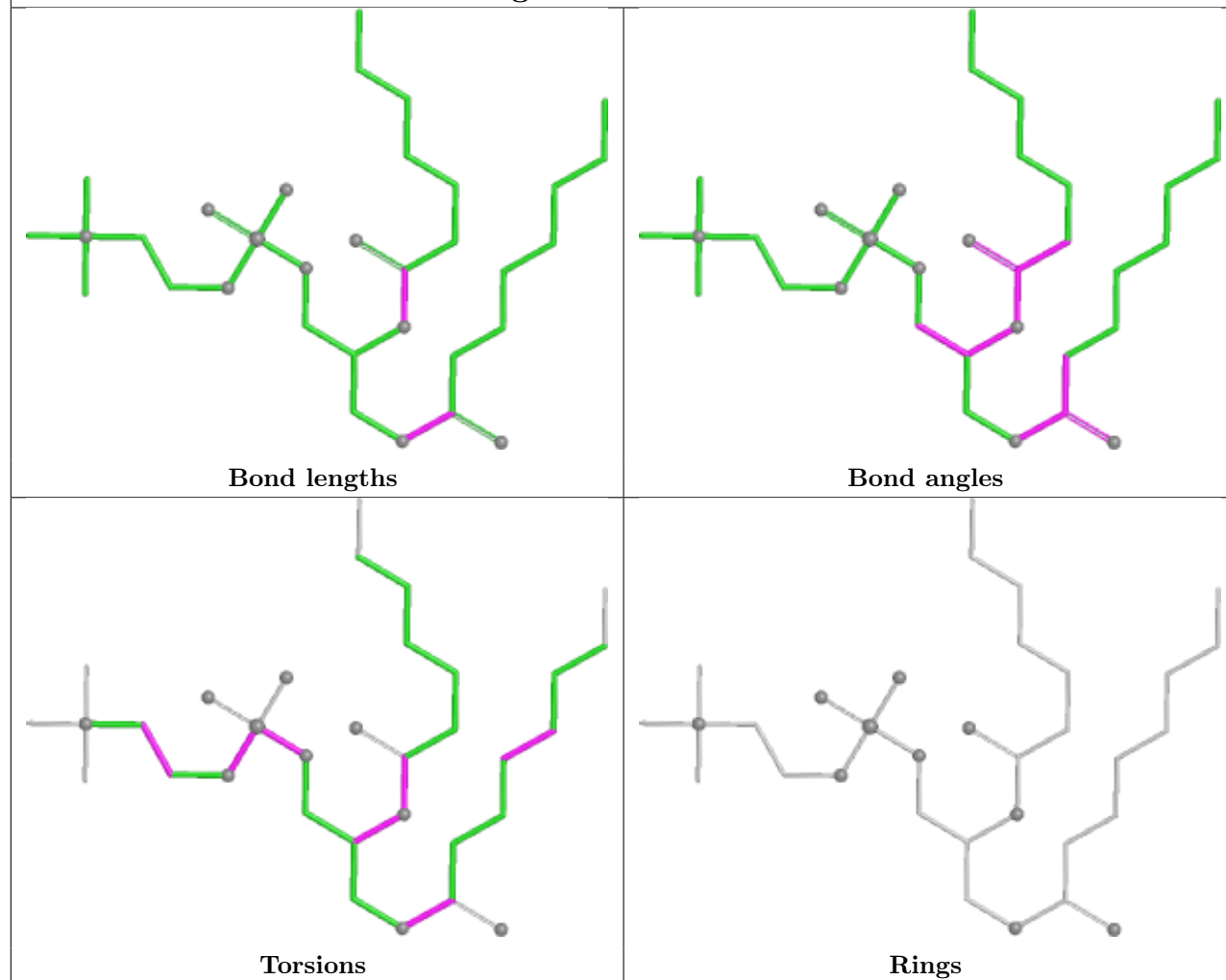
Ligand PLC J 318



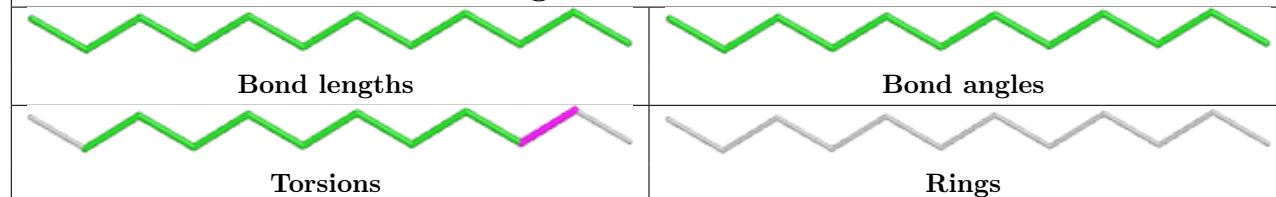


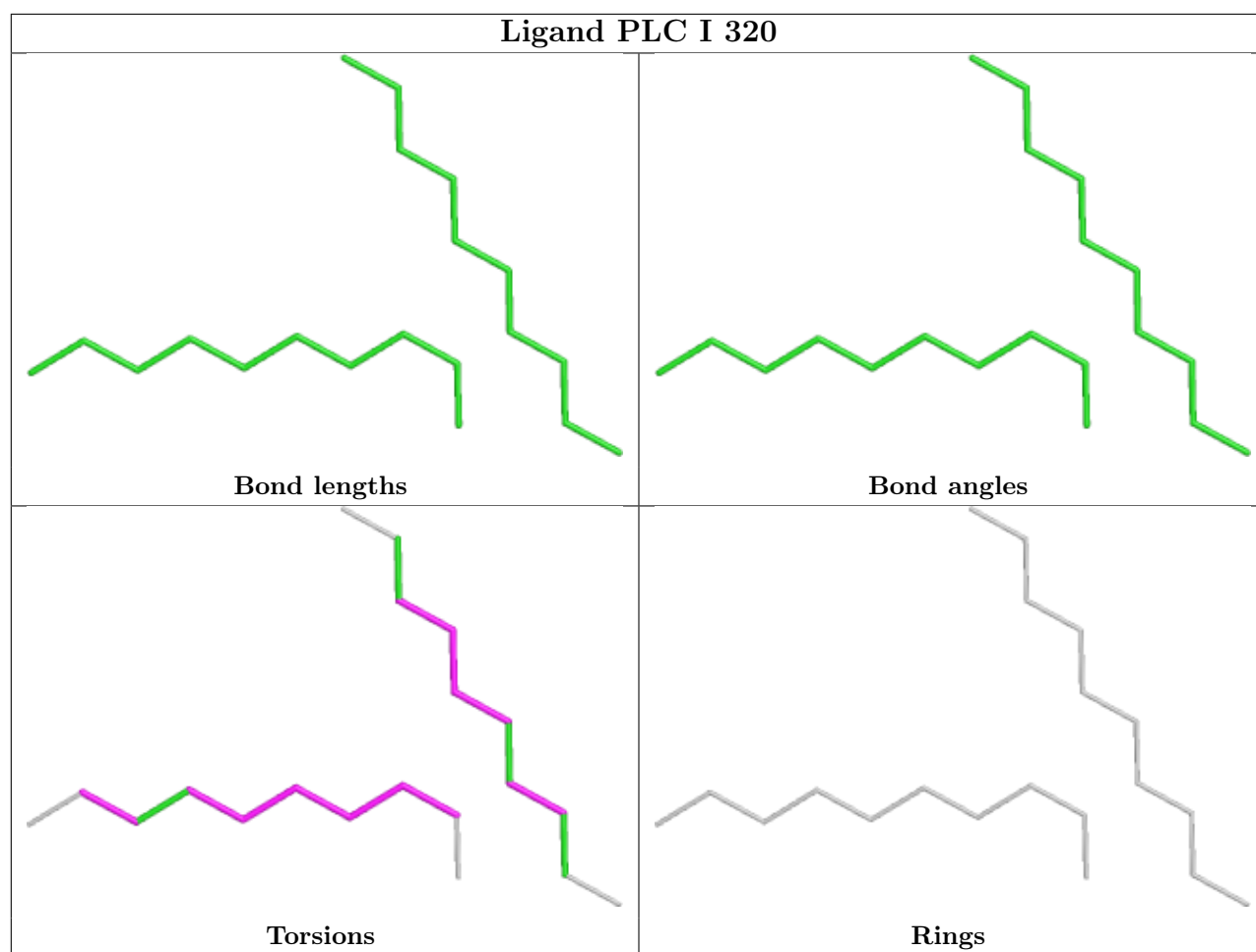


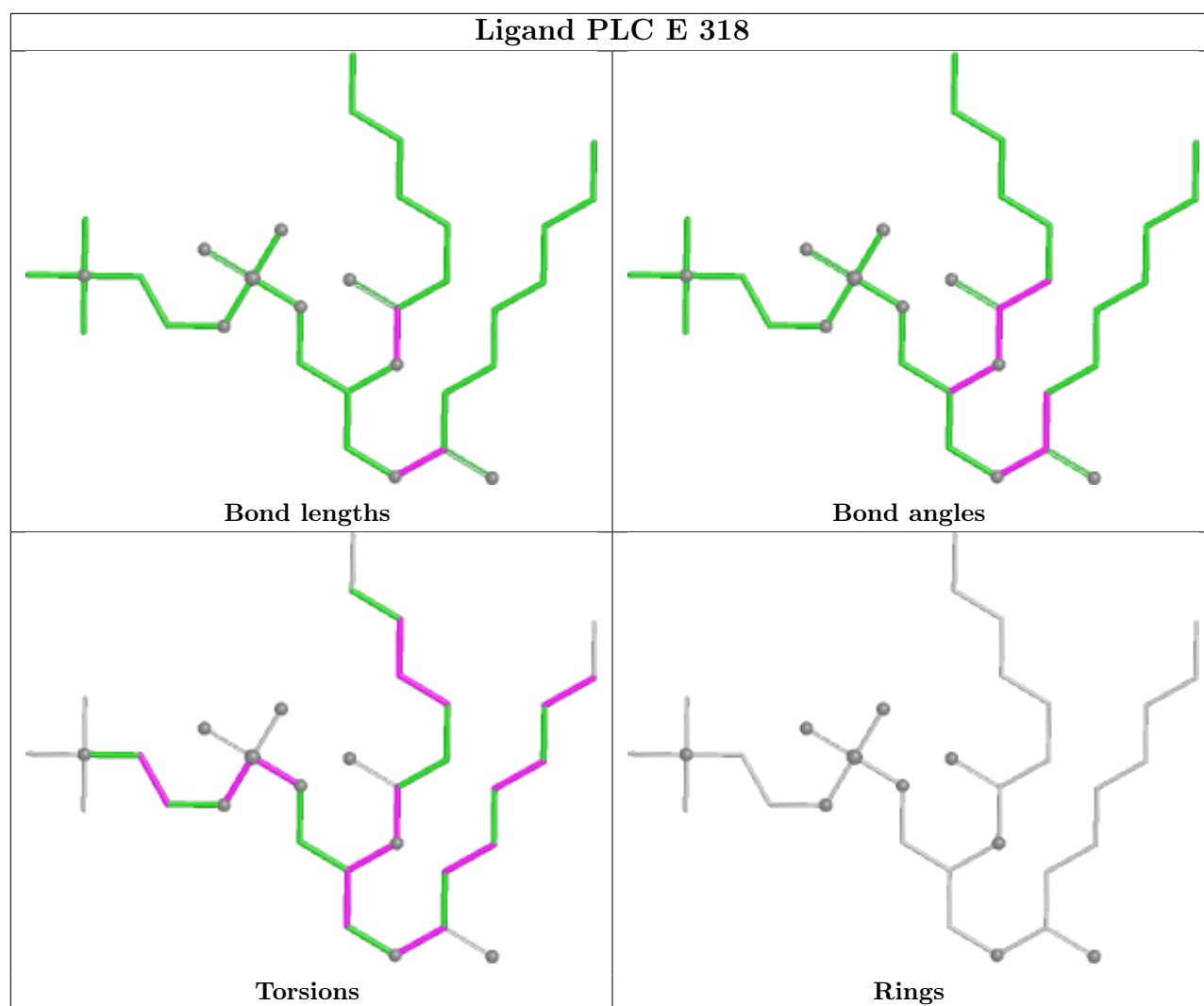
Ligand PLC D 318

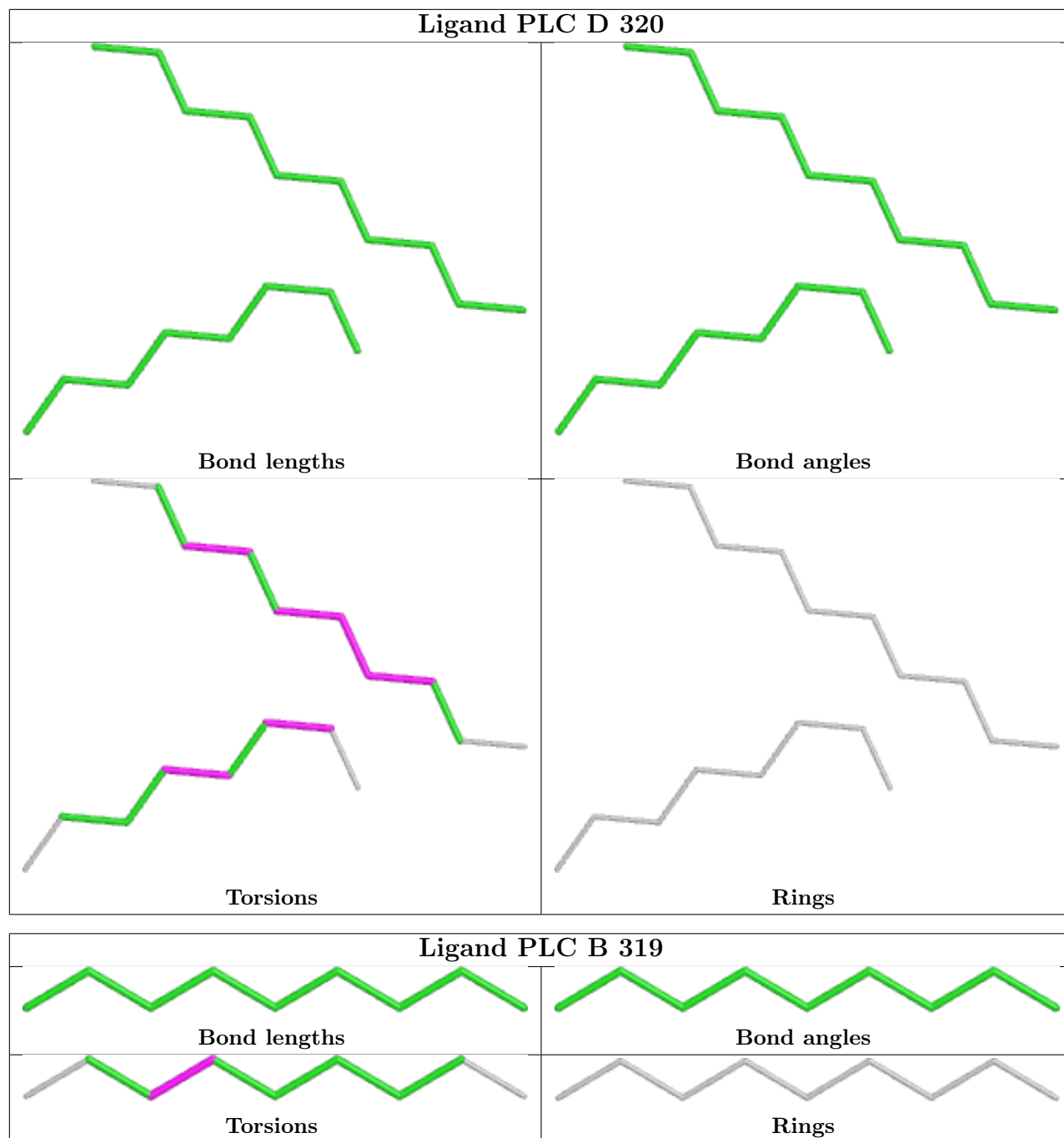


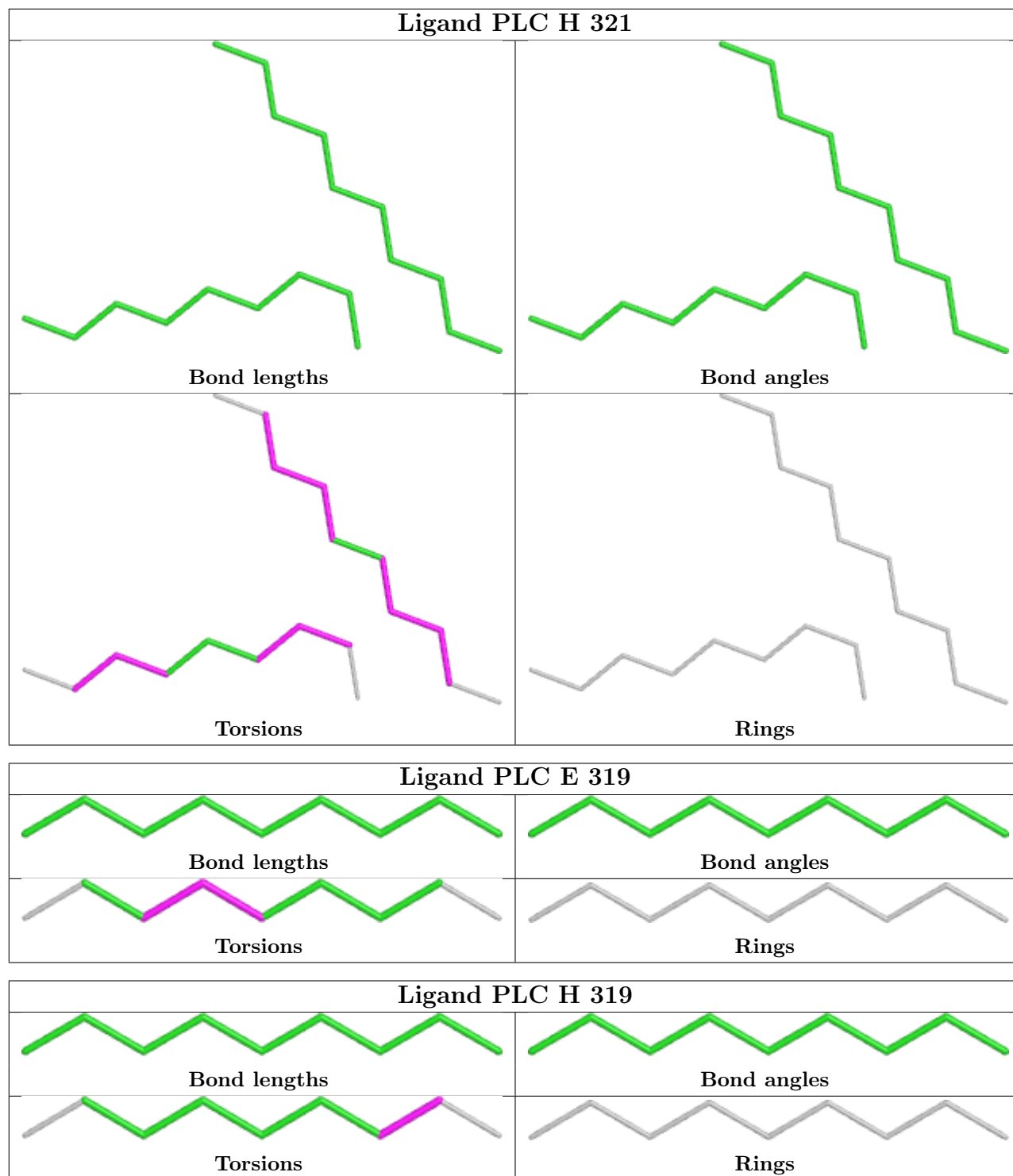
Ligand LMT E 321

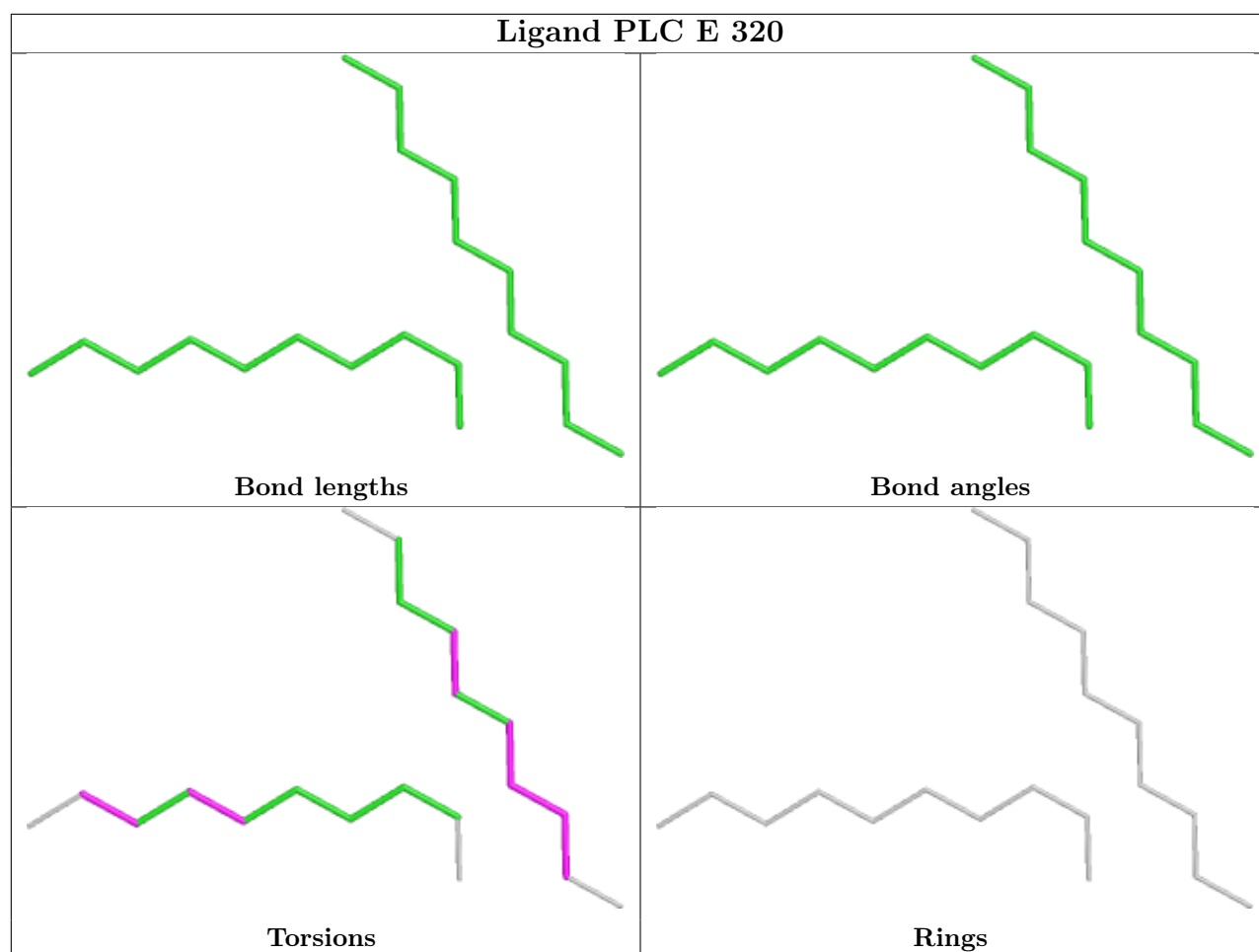




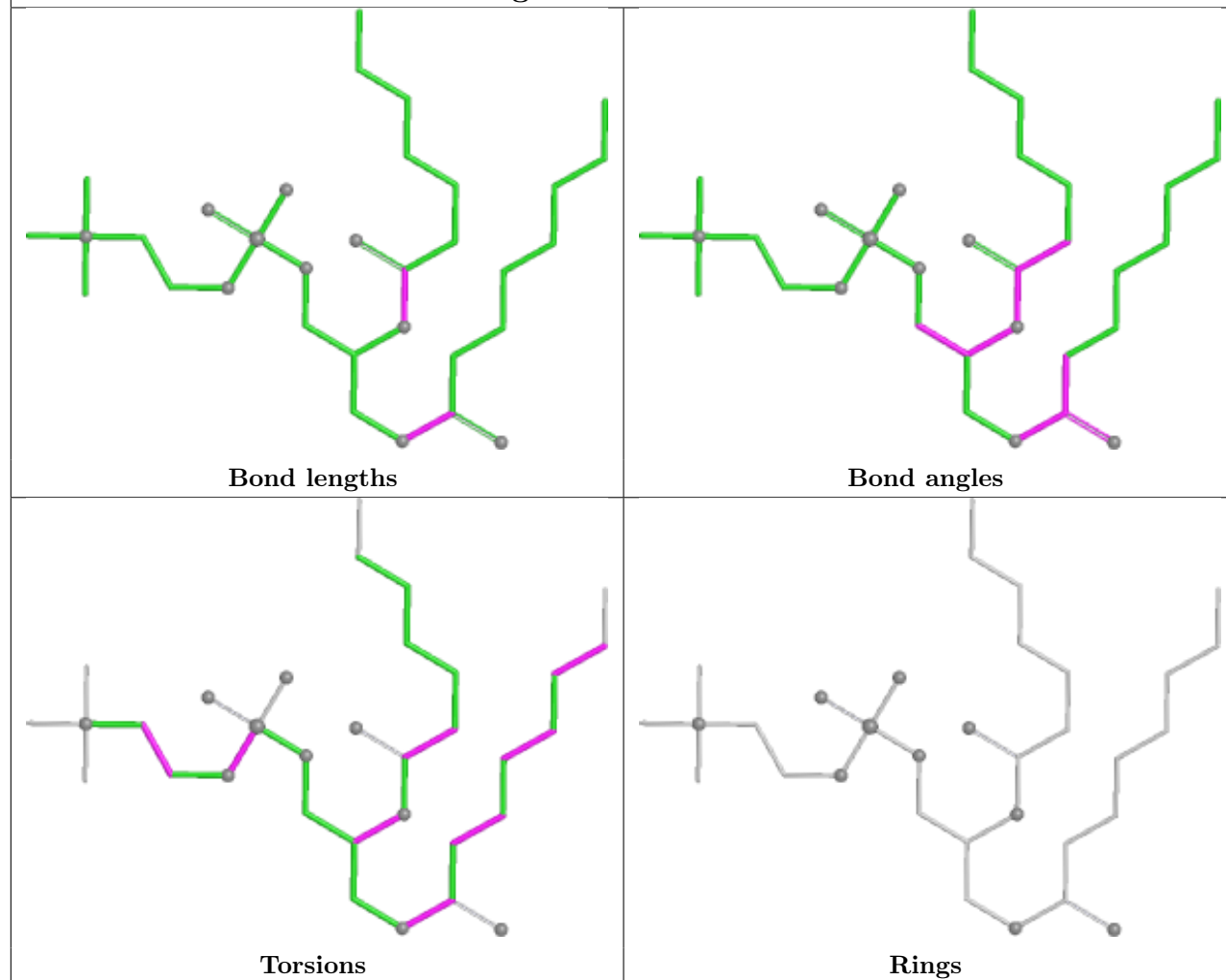




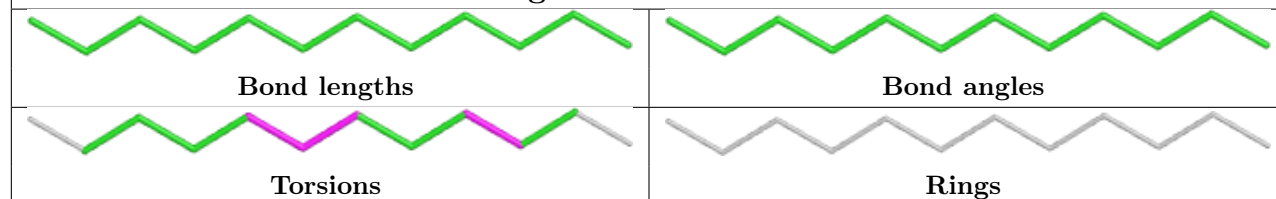


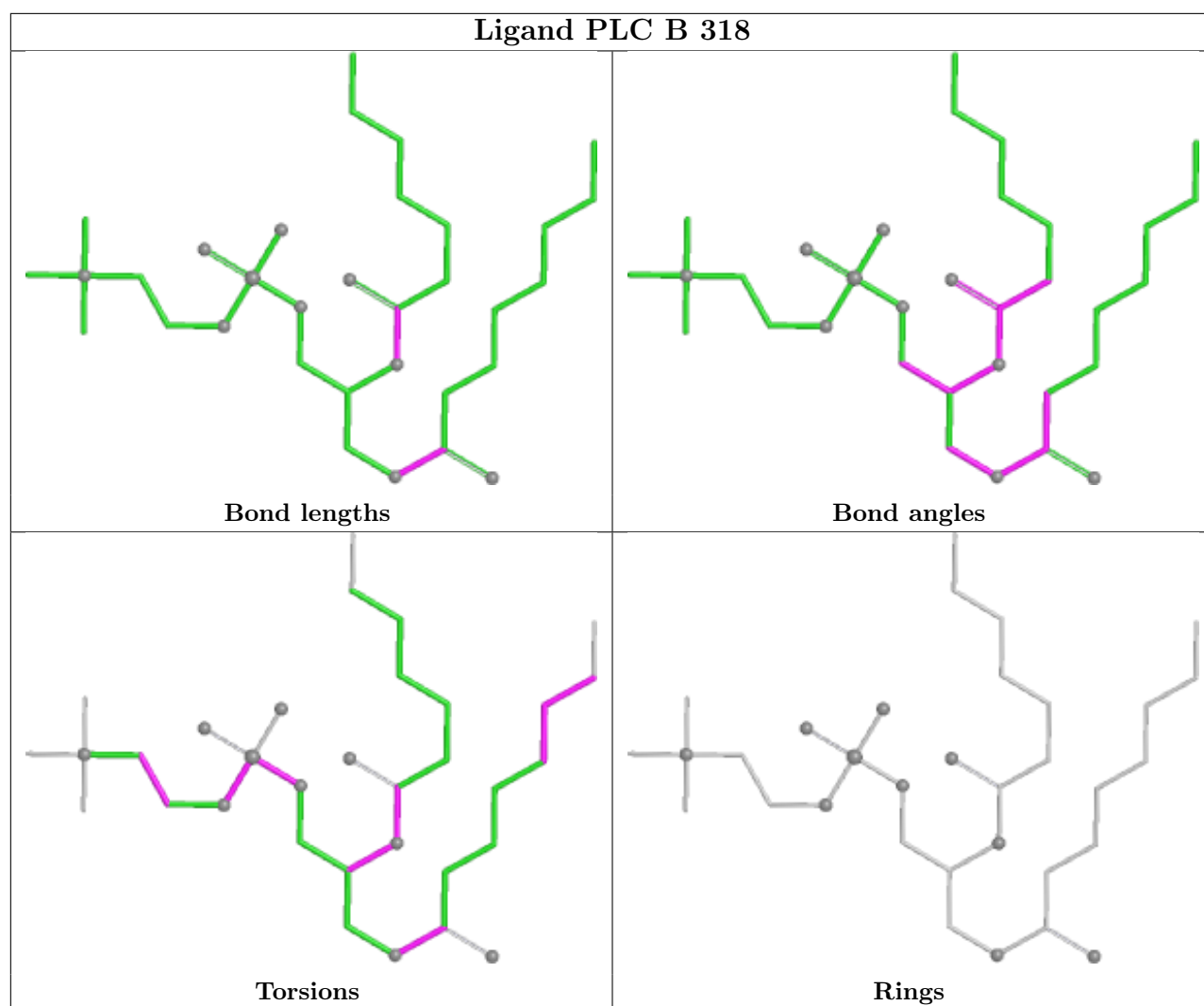


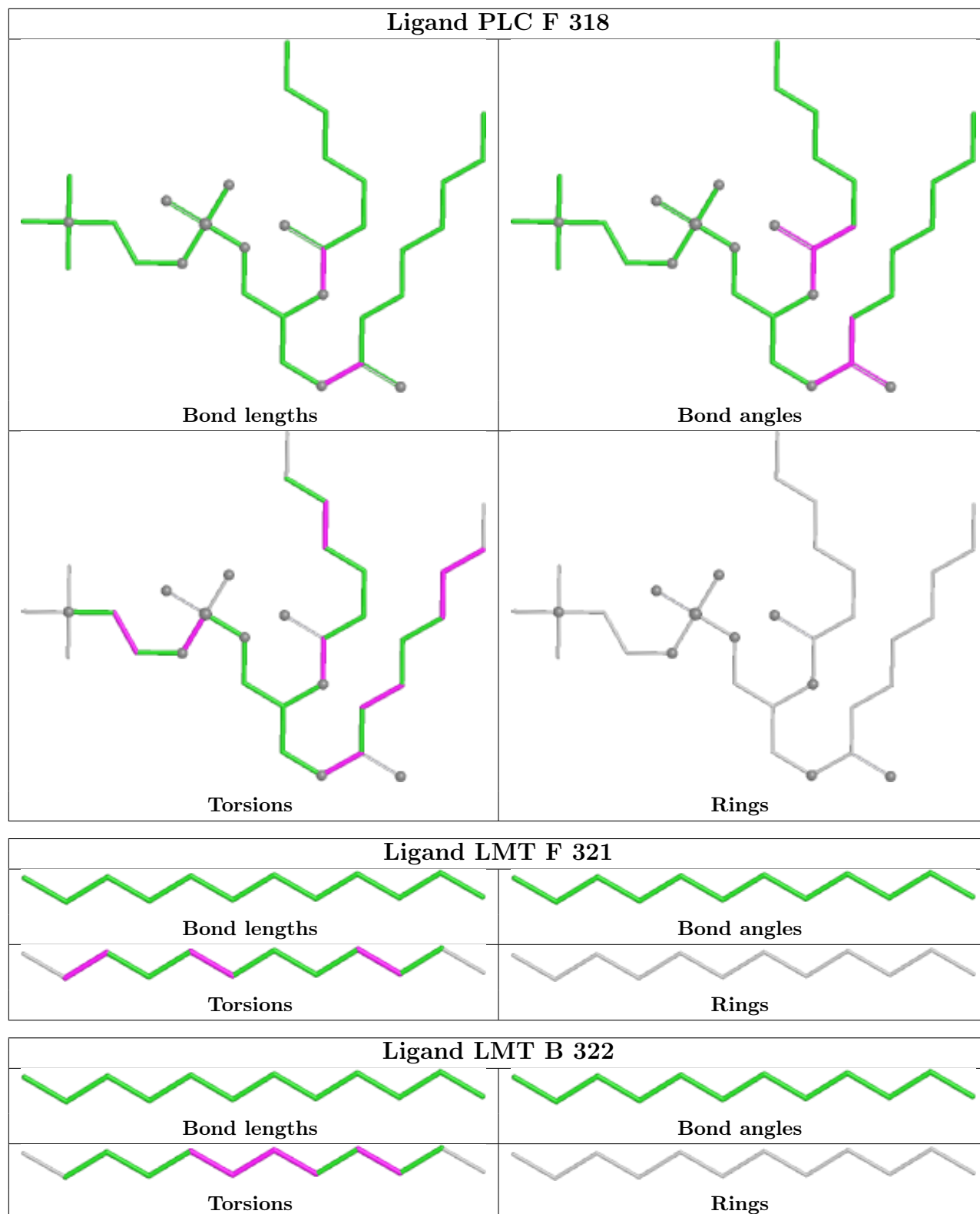
Ligand PLC A 318

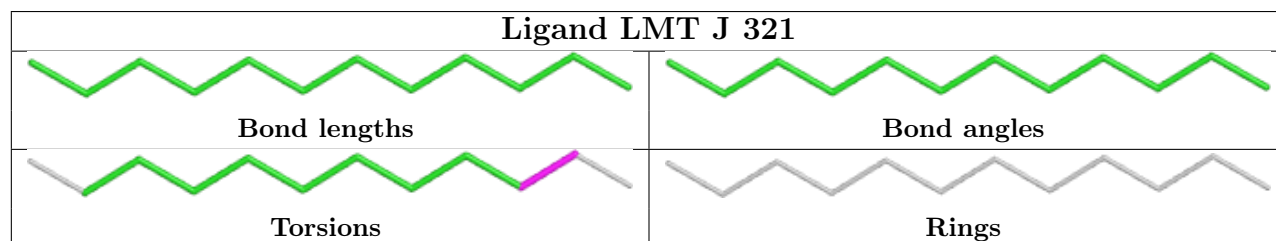
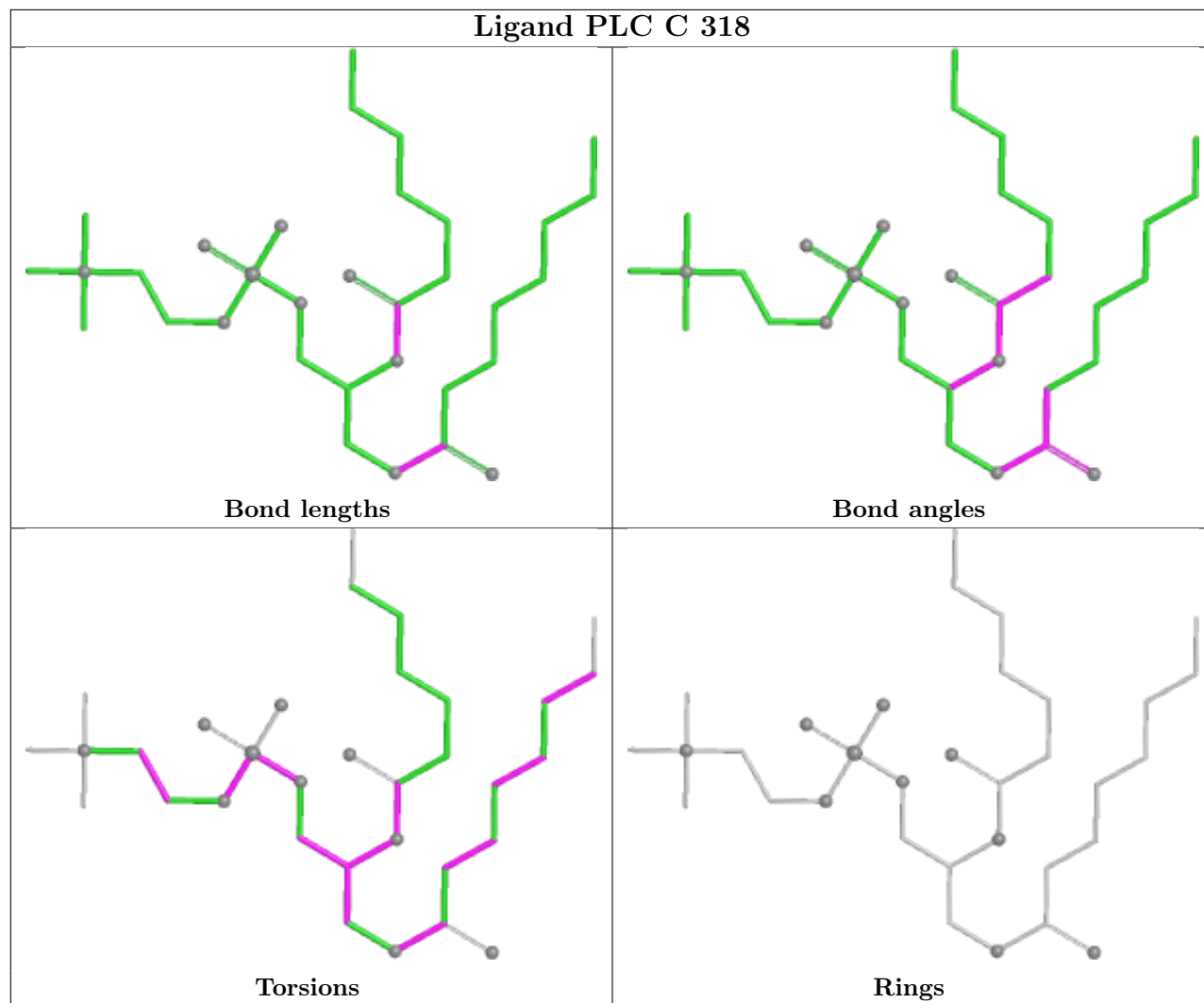
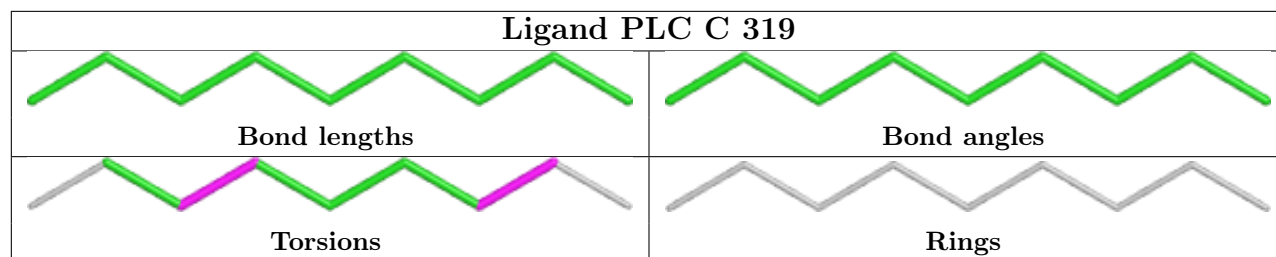


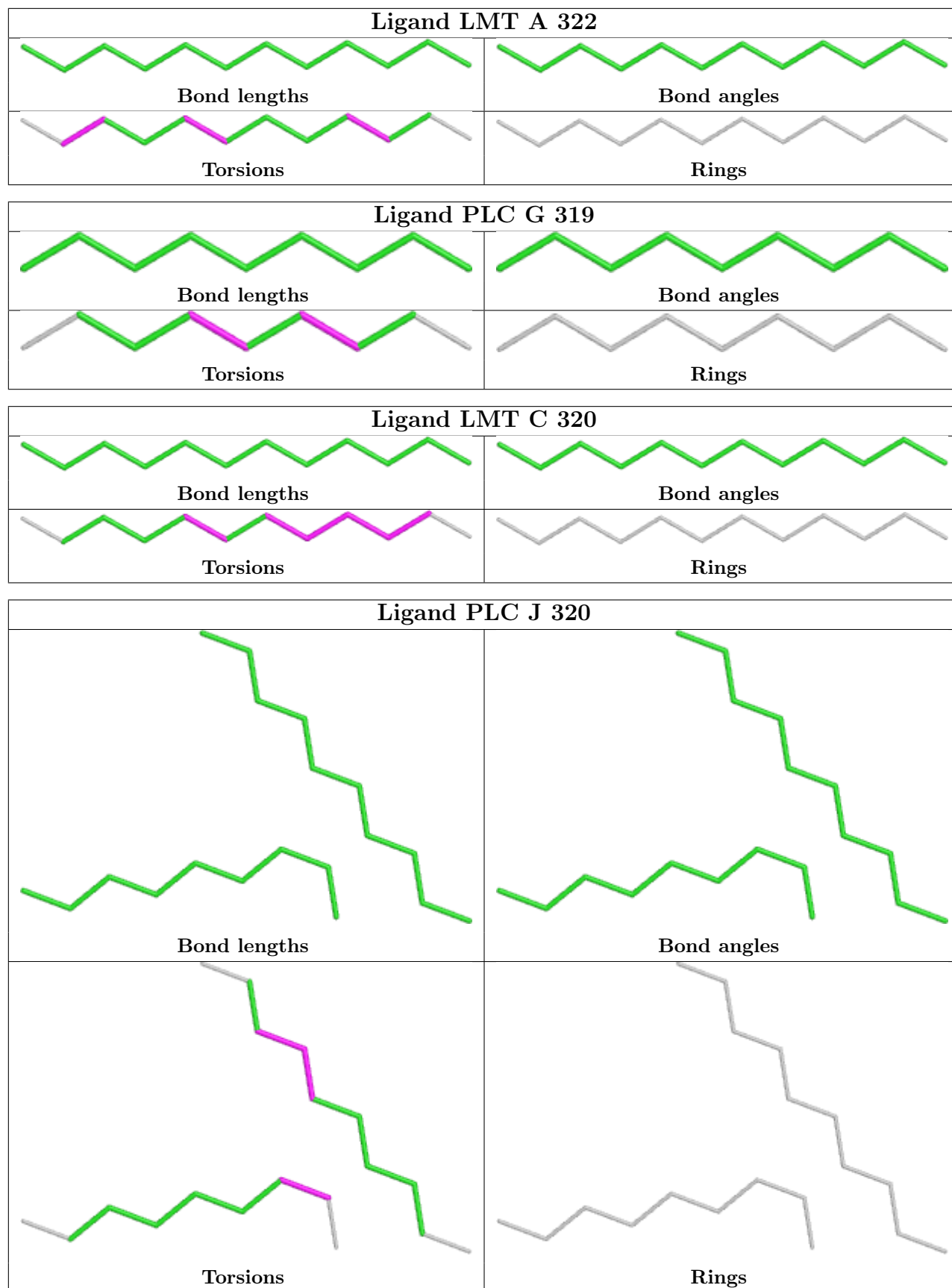
Ligand LMT H 322

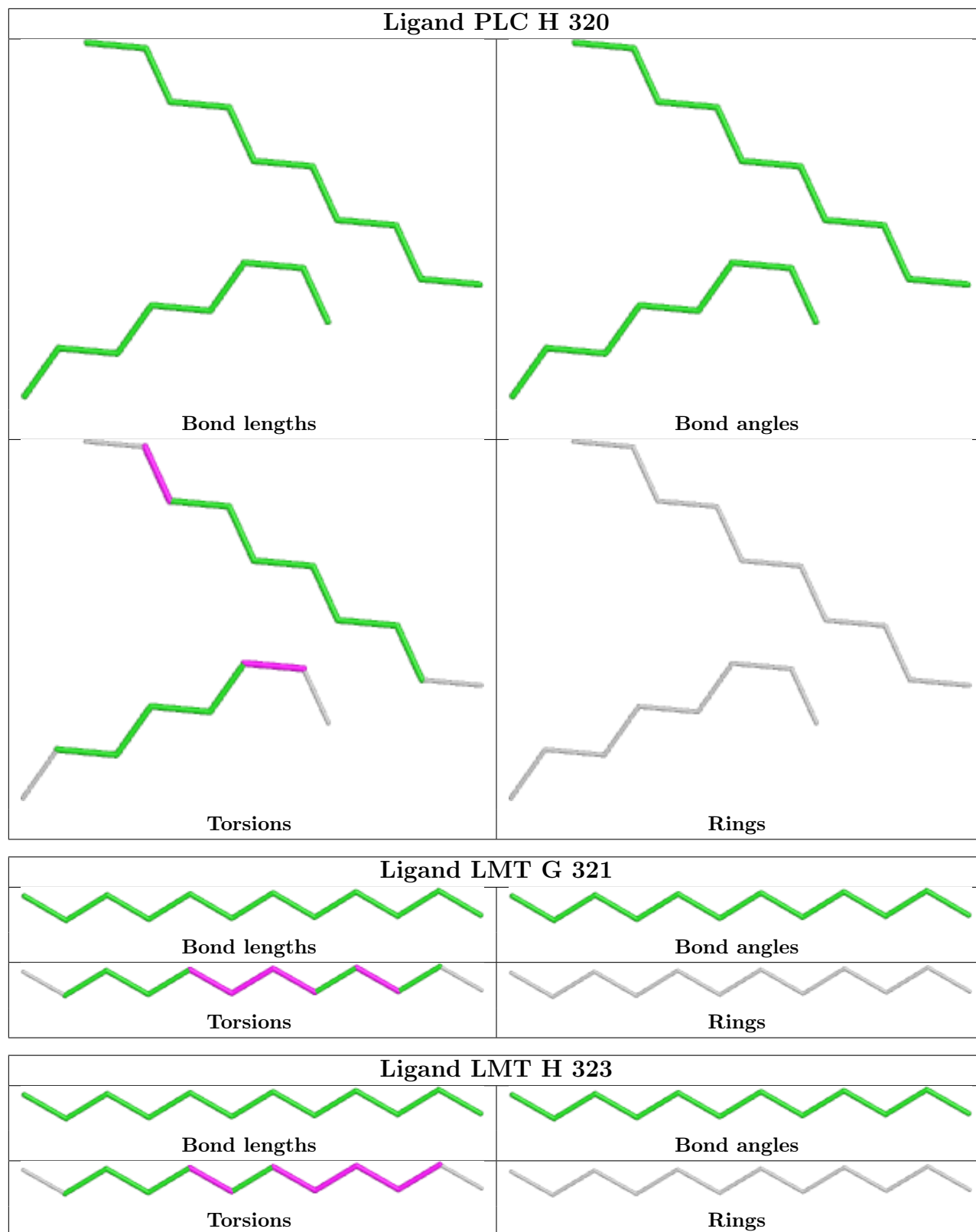


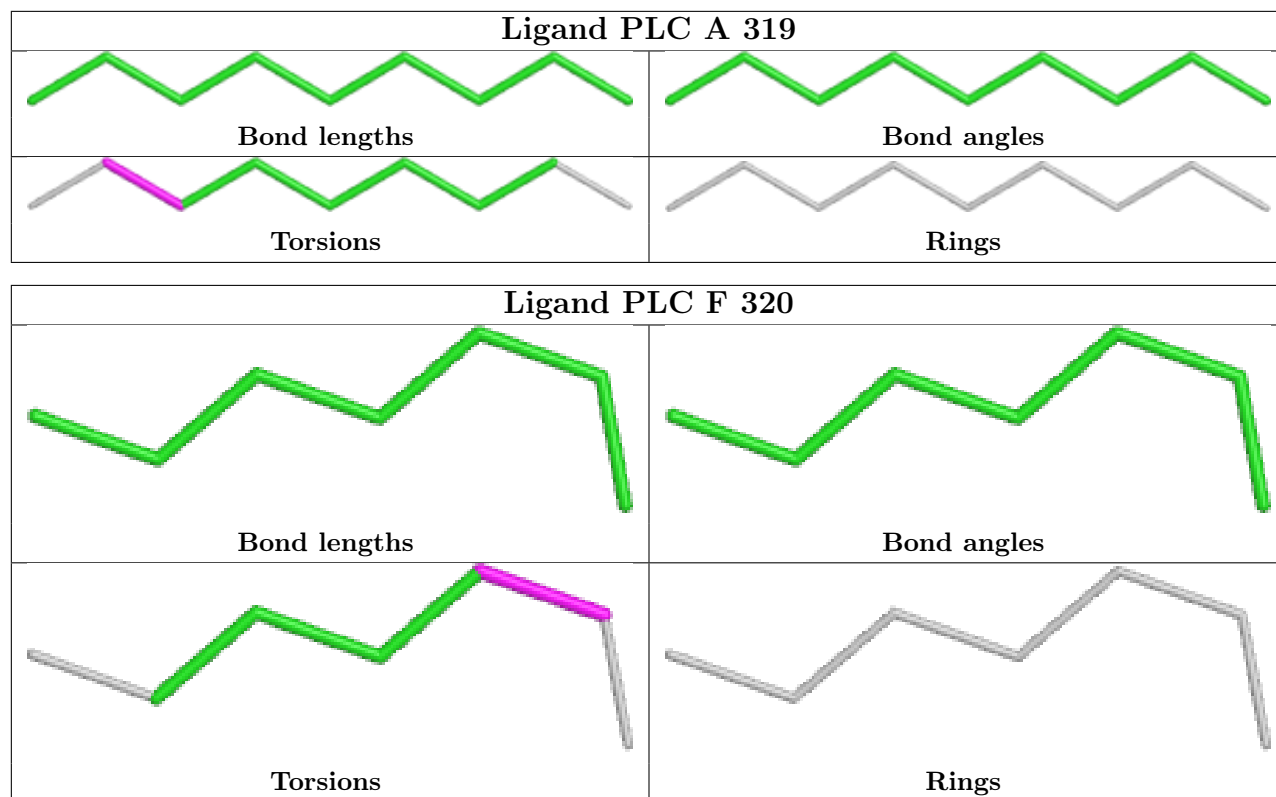




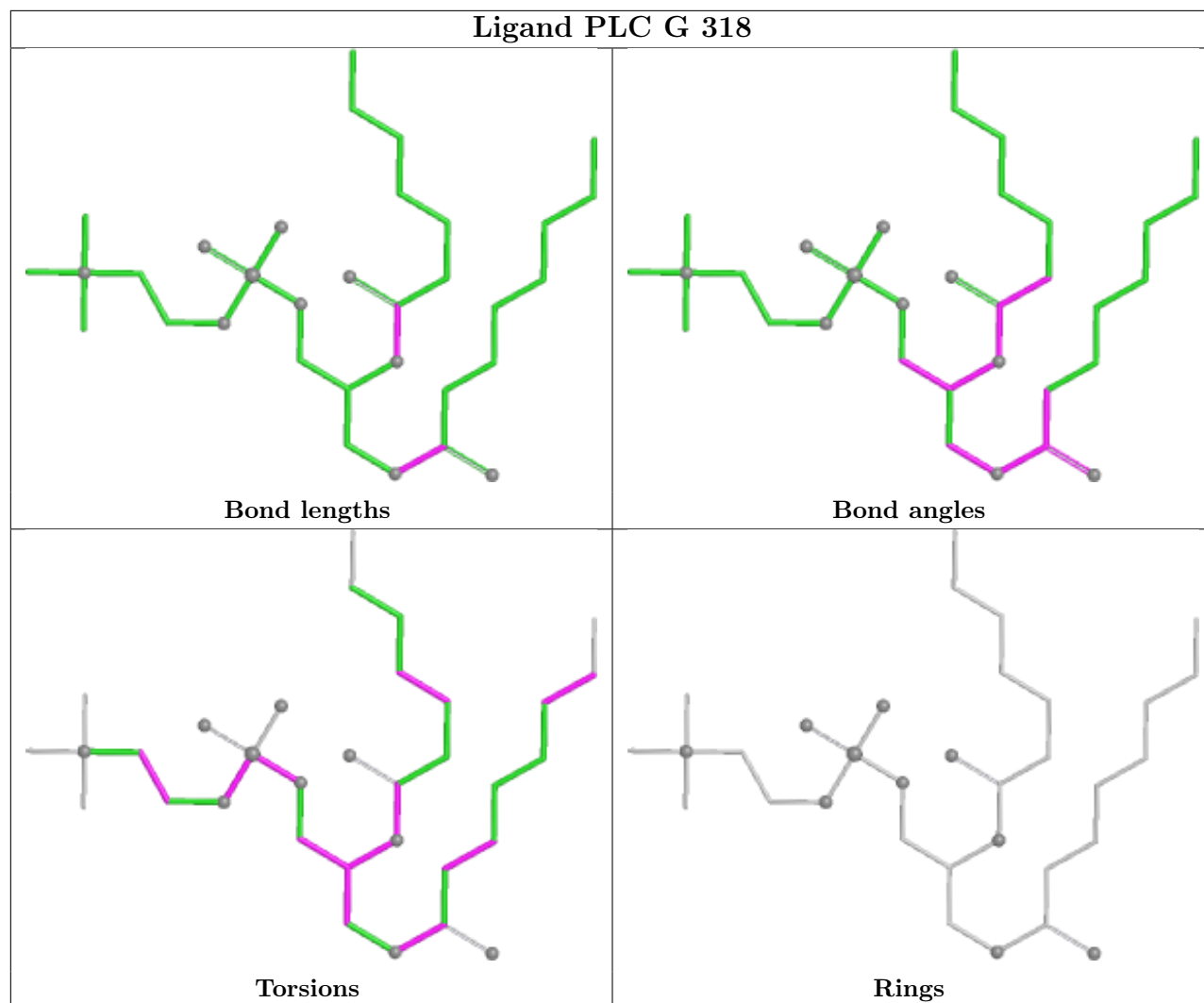


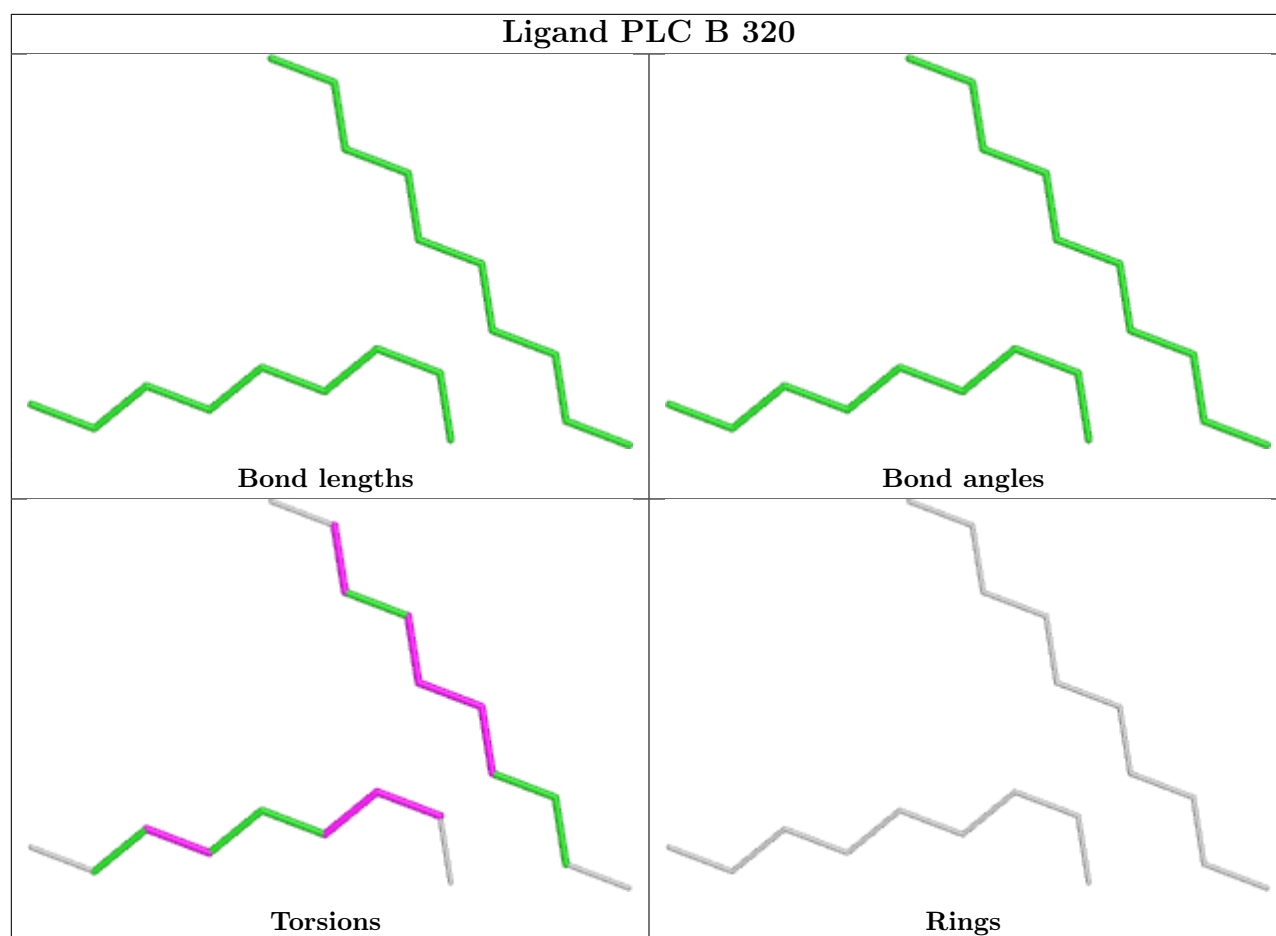






Ligand PLC G 318





5.7 Other polymers i

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	311/321 (96%)	0.70	37 (11%) 9 7	34, 58, 105, 129	2 (0%)
1	B	311/321 (96%)	0.60	30 (9%) 13 11	33, 58, 87, 96	1 (0%)
1	C	311/321 (96%)	0.73	45 (14%) 6 4	32, 57, 95, 115	2 (0%)
1	D	311/321 (96%)	0.86	57 (18%) 3 3	35, 57, 105, 129	1 (0%)
1	E	311/321 (96%)	0.92	48 (15%) 5 4	32, 58, 107, 128	1 (0%)
1	F	311/321 (96%)	0.55	34 (10%) 10 9	36, 57, 94, 118	2 (0%)
1	G	311/321 (96%)	0.59	34 (10%) 10 9	31, 56, 88, 102	2 (0%)
1	H	311/321 (96%)	0.78	51 (16%) 4 3	32, 56, 103, 137	2 (0%)
1	I	311/321 (96%)	0.78	42 (13%) 7 5	36, 56, 100, 129	1 (0%)
1	J	311/321 (96%)	0.64	38 (12%) 8 7	32, 58, 93, 106	1 (0%)
All	All	3110/3210 (96%)	0.71	416 (13%) 7 5	31, 57, 99, 137	15 (0%)

All (416) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	H	57	VAL	8.7
1	E	57	VAL	8.6
1	I	11	ILE	7.6
1	B	154	ASP	7.6
1	G	11	ILE	7.1
1	D	61	VAL	6.7
1	D	154	ASP	6.7
1	H	11	ILE	6.7
1	H	60	GLY	6.5
1	B	83	ASN	6.4
1	G	84	ALA	6.1
1	E	11	ILE	5.9
1	F	11	ILE	5.9

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Mol	Chain	Res	Type	RSRZ
1	B	5	VAL	5.7
1	G	154	ASP	5.7
1	I	12	ALA	5.7
1	B	181	GLU	5.6
1	H	56	PRO	5.5
1	A	11	ILE	5.4
1	C	11	ILE	5.4
1	D	11	ILE	5.3
1	E	88	ASP	5.3
1	C	129	TYR	5.3
1	E	56	PRO	5.1
1	E	154	ASP	5.1
1	B	84	ALA	5.1
1	A	64	LYS	5.0
1	J	5	VAL	5.0
1	G	26	GLU	5.0
1	G	83	ASN	5.0
1	C	127	HIS	5.0
1	H	62	ARG	4.9
1	H	48	LYS	4.9
1	B	11	ILE	4.9
1	C	62	ARG	4.9
1	C	222	GLU	4.9
1	G	77[A]	ARG	4.8
1	I	154	ASP	4.8
1	A	154	ASP	4.8
1	A	12	ALA	4.7
1	B	12	ALA	4.7
1	I	5	VAL	4.7
1	H	185	ASP	4.6
1	H	61	VAL	4.6
1	A	57	VAL	4.5
1	D	56	PRO	4.4
1	E	89	VAL	4.4
1	A	13	ASP	4.4
1	B	136	ASP	4.4
1	F	12	ALA	4.4
1	I	10	PRO	4.4
1	A	14	GLU	4.4
1	I	61	VAL	4.3
1	C	5	VAL	4.3
1	D	5	VAL	4.3

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Mol	Chain	Res	Type	RSRZ
1	D	63	VAL	4.3
1	A	66	TYR	4.3
1	D	62	ARG	4.3
1	E	83	ASN	4.2
1	D	50	ARG	4.2
1	G	5	VAL	4.2
1	B	88	ASP	4.2
1	D	152	ASN	4.2
1	A	52	LEU	4.1
1	J	88	ASP	4.1
1	J	154	ASP	4.1
1	E	61	VAL	4.1
1	F	154	ASP	4.1
1	A	10	PRO	4.1
1	C	113	PRO	4.1
1	E	115	ASP	4.0
1	H	166	THR	4.0
1	H	207	PHE	4.0
1	C	125	THR	4.0
1	G	86	ASP	4.0
1	I	9	PRO	4.0
1	I	62	ARG	4.0
1	E	12	ALA	4.0
1	C	187	GLN	4.0
1	D	170	LYS	4.0
1	E	5	VAL	4.0
1	A	61	VAL	3.9
1	H	12	ALA	3.9
1	G	207	PHE	3.9
1	F	83	ASN	3.9
1	H	50	ARG	3.9
1	A	70	ALA	3.9
1	E	59	SER	3.9
1	F	222	GLU	3.8
1	H	222	GLU	3.8
1	J	83	ASN	3.8
1	H	84	ALA	3.8
1	I	50	ARG	3.8
1	I	152	ASN	3.8
1	D	12	ALA	3.8
1	E	13	ASP	3.8
1	B	9	PRO	3.8

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Mol	Chain	Res	Type	RSRZ
1	C	207	PHE	3.8
1	H	5	VAL	3.8
1	D	188	LEU	3.8
1	H	187	GLN	3.7
1	C	84	ALA	3.7
1	E	180	LEU	3.7
1	E	14	GLU	3.7
1	H	125	THR	3.7
1	J	137	THR	3.7
1	J	61	VAL	3.7
1	E	153	ASP	3.7
1	D	136	ASP	3.6
1	G	178	ASP	3.6
1	F	80	ASN	3.6
1	I	245	CYS	3.6
1	A	58	ARG	3.6
1	G	13	ASP	3.6
1	E	102	TYR	3.6
1	I	244	THR	3.6
1	D	64	LYS	3.6
1	B	26	GLU	3.6
1	J	13	ASP	3.6
1	A	152	ASN	3.6
1	B	152	ASN	3.6
1	E	152	ASN	3.6
1	E	85	ARG	3.5
1	F	61	VAL	3.5
1	H	305	LEU	3.5
1	C	152	ASN	3.5
1	E	50	ARG	3.5
1	G	12	ALA	3.5
1	F	26	GLU	3.5
1	A	62	ARG	3.5
1	J	62	ARG	3.5
1	H	210	PHE	3.5
1	A	48	LYS	3.5
1	H	66	TYR	3.5
1	B	210	PHE	3.4
1	J	11	ILE	3.4
1	H	14	GLU	3.4
1	F	112	SER	3.4
1	C	9	PRO	3.4

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Mol	Chain	Res	Type	RSRZ
1	D	207	PHE	3.4
1	I	207	PHE	3.4
1	F	113	PRO	3.4
1	I	210	PHE	3.4
1	B	6	SER	3.4
1	C	137	THR	3.4
1	F	115	ASP	3.4
1	H	88	ASP	3.4
1	C	80	ASN	3.3
1	E	62	ARG	3.3
1	H	127	HIS	3.3
1	B	207	PHE	3.3
1	F	13	ASP	3.3
1	B	206	LEU	3.3
1	B	209	LEU	3.3
1	A	65	THR	3.3
1	E	58	ARG	3.3
1	B	75	GLU	3.3
1	J	12	ALA	3.3
1	I	63	VAL	3.3
1	E	80	ASN	3.3
1	E	84	ALA	3.3
1	B	10	PRO	3.2
1	D	127	HIS	3.2
1	F	79	VAL	3.2
1	H	284	GLN	3.2
1	I	126	LEU	3.2
1	A	222	GLU	3.2
1	C	210	PHE	3.2
1	E	9	PRO	3.2
1	E	10	PRO	3.2
1	H	59	SER	3.2
1	E	137	THR	3.2
1	I	137	THR	3.2
1	J	58	ARG	3.1
1	J	110	VAL	3.1
1	G	113	PRO	3.1
1	I	188	LEU	3.1
1	E	129	TYR	3.1
1	B	86	ASP	3.1
1	A	26	GLU	3.1
1	F	86	ASP	3.1

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Mol	Chain	Res	Type	RSRZ
1	J	86	ASP	3.1
1	J	152	ASN	3.1
1	D	150	GLY	3.1
1	H	26	GLU	3.1
1	I	155	VAL	3.0
1	C	83	ASN	3.0
1	H	137	THR	3.0
1	I	136	ASP	3.0
1	I	127	HIS	3.0
1	C	88	ASP	3.0
1	H	152	ASN	3.0
1	D	126	LEU	3.0
1	F	84	ALA	3.0
1	D	14	GLU	3.0
1	A	88	ASP	2.9
1	C	112	SER	2.9
1	E	86	ASP	2.9
1	D	10	PRO	2.9
1	C	26	GLU	2.9
1	B	205	MET	2.9
1	H	64	LYS	2.9
1	A	56	PRO	2.9
1	D	115	ASP	2.9
1	I	88	ASP	2.9
1	E	48	LYS	2.9
1	G	125	THR	2.9
1	I	309	ILE	2.9
1	D	24	LEU	2.9
1	G	206	LEU	2.9
1	I	56	PRO	2.8
1	E	26	GLU	2.8
1	G	129	TYR	2.8
1	B	137	THR	2.8
1	G	187	GLN	2.8
1	H	58	ARG	2.8
1	C	13	ASP	2.8
1	F	137	THR	2.8
1	D	57	VAL	2.8
1	H	86	ASP	2.8
1	G	170	LYS	2.8
1	F	5	VAL	2.7
1	H	53	ALA	2.7

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Mol	Chain	Res	Type	RSRZ
1	I	80	ASN	2.7
1	D	125	THR	2.7
1	H	10	PRO	2.7
1	C	14	GLU	2.7
1	E	90	VAL	2.7
1	F	127	HIS	2.7
1	I	186	TYR	2.7
1	F	14	GLU	2.7
1	C	183	LYS	2.7
1	H	183	LYS	2.7
1	B	129	TYR	2.7
1	E	55	ASP	2.7
1	I	13	ASP	2.7
1	D	180	LEU	2.7
1	D	78	PHE	2.7
1	J	207	PHE	2.7
1	G	127	HIS	2.7
1	D	245	CYS	2.7
1	H	129	TYR	2.7
1	J	9	PRO	2.7
1	C	206	LEU	2.7
1	E	305	LEU	2.7
1	G	6	SER	2.7
1	A	54	PHE	2.6
1	B	113	PRO	2.6
1	C	79	VAL	2.6
1	D	88	ASP	2.6
1	E	178	ASP	2.6
1	G	136	ASP	2.6
1	H	189	ARG	2.6
1	A	5	VAL	2.6
1	C	61	VAL	2.6
1	F	57	VAL	2.6
1	A	86	ASP	2.6
1	A	83	ASN	2.6
1	H	186	TYR	2.6
1	F	297	ILE	2.6
1	G	284	GLN	2.6
1	G	87	ALA	2.6
1	G	115	ASP	2.6
1	J	178	ASP	2.6
1	C	284	GLN	2.5

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Mol	Chain	Res	Type	RSRZ
1	F	284	GLN	2.5
1	I	84	ALA	2.5
1	I	83	ASN	2.5
1	D	9	PRO	2.5
1	D	156	PHE	2.5
1	E	87	ALA	2.5
1	J	85	ARG	2.5
1	C	185	ASP	2.5
1	J	79	VAL	2.5
1	H	6	SER	2.5
1	A	129	TYR	2.5
1	J	78	PHE	2.5
1	F	62	ARG	2.5
1	A	244	THR	2.5
1	D	173	ASN	2.5
1	J	39	VAL	2.4
1	D	48	LYS	2.4
1	I	170	LYS	2.4
1	G	40	ASN	2.4
1	B	50	ARG	2.4
1	I	209	LEU	2.4
1	C	168	VAL	2.4
1	E	63	VAL	2.4
1	D	69	GLU	2.4
1	E	210	PHE	2.4
1	G	14	GLU	2.4
1	J	75	GLU	2.4
1	E	53	ALA	2.4
1	J	173	ASN	2.4
1	H	141	VAL	2.4
1	B	13	ASP	2.4
1	H	77	ARG	2.4
1	I	189	ARG	2.4
1	E	207	PHE	2.4
1	A	172	ALA	2.4
1	G	186	TYR	2.4
1	J	10	PRO	2.4
1	A	170	LYS	2.3
1	G	62	ARG	2.3
1	H	89	VAL	2.3
1	B	312	PHE	2.3
1	C	12	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
1	I	59	SER	2.3
1	D	86	ASP	2.3
1	E	104	GLU	2.3
1	F	69	GLU	2.3
1	F	114	LEU	2.3
1	G	114	LEU	2.3
1	J	25	ILE	2.3
1	J	105	ARG	2.3
1	G	173	ASN	2.3
1	C	87	ALA	2.3
1	D	84	ALA	2.3
1	G	243	GLU	2.3
1	C	154	ASP	2.3
1	D	114	LEU	2.3
1	F	129	TYR	2.3
1	I	14	GLU	2.3
1	I	153	ASP	2.3
1	I	25	ILE	2.3
1	F	134	SER	2.3
1	D	39	VAL	2.3
1	J	113	PRO	2.3
1	J	210	PHE	2.2
1	H	83	ASN	2.2
1	C	126	LEU	2.2
1	J	97	ASP	2.2
1	A	297	ILE	2.2
1	A	292	THR	2.2
1	D	141	VAL	2.2
1	E	15	PRO	2.2
1	G	210	PHE	2.2
1	H	54	PHE	2.2
1	A	298	ALA	2.2
1	A	51	ARG	2.2
1	C	136	ASP	2.2
1	H	97	ASP	2.2
1	A	63	VAL	2.2
1	D	15	PRO	2.2
1	F	123	SER	2.2
1	B	156	PHE	2.2
1	D	54	PHE	2.2
1	D	165	PHE	2.2
1	A	84	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
1	I	48	LYS	2.2
1	H	177	GLU	2.2
1	J	84	ALA	2.2
1	C	10	PRO	2.2
1	C	204	PRO	2.2
1	D	89	VAL	2.2
1	F	10	PRO	2.2
1	H	15	PRO	2.2
1	J	155	VAL	2.2
1	D	137	THR	2.2
1	D	60	GLY	2.2
1	D	37	PHE	2.2
1	D	210	PHE	2.2
1	H	206	LEU	2.2
1	C	147	GLU	2.2
1	E	75	GLU	2.2
1	J	26	GLU	2.2
1	D	85	ARG	2.2
1	A	173	ASN	2.2
1	C	57	VAL	2.2
1	C	86	ASP	2.2
1	H	94	VAL	2.2
1	E	111	LEU	2.2
1	I	305	LEU	2.2
1	J	95	SER	2.2
1	D	25	ILE	2.1
1	D	309	ILE	2.1
1	I	89	VAL	2.1
1	F	292	THR	2.1
1	F	245	CYS	2.1
1	H	85	ARG	2.1
1	E	309	ILE	2.1
1	D	80	ASN	2.1
1	D	83	ASN	2.1
1	B	204	PRO	2.1
1	D	155	VAL	2.1
1	J	81	VAL	2.1
1	G	85	ARG	2.1
1	D	26	GLU	2.1
1	I	243	GLU	2.1
1	I	284	GLN	2.1
1	D	110	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
1	F	15	PRO	2.1
1	B	65	THR	2.1
1	F	136	ASP	2.1
1	J	99	THR	2.1
1	F	117	ARG	2.1
1	G	73	ILE	2.1
1	D	123	SER	2.1
1	J	6	SER	2.1
1	C	56	PRO	2.1
1	C	58	ARG	2.1
1	E	77	ARG	2.1
1	H	154	ASP	2.1
1	H	306	ALA	2.1
1	E	64	LYS	2.0
1	I	64	LYS	2.0
1	E	301	VAL	2.0
1	J	80	ASN	2.0
1	C	309	ILE	2.0
1	A	53	ALA	2.0
1	C	306	ALA	2.0
1	C	149	VAL	2.0
1	D	59	SER	2.0
1	D	96	PRO	2.0
1	C	60	GLY	2.0
1	J	65	THR	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

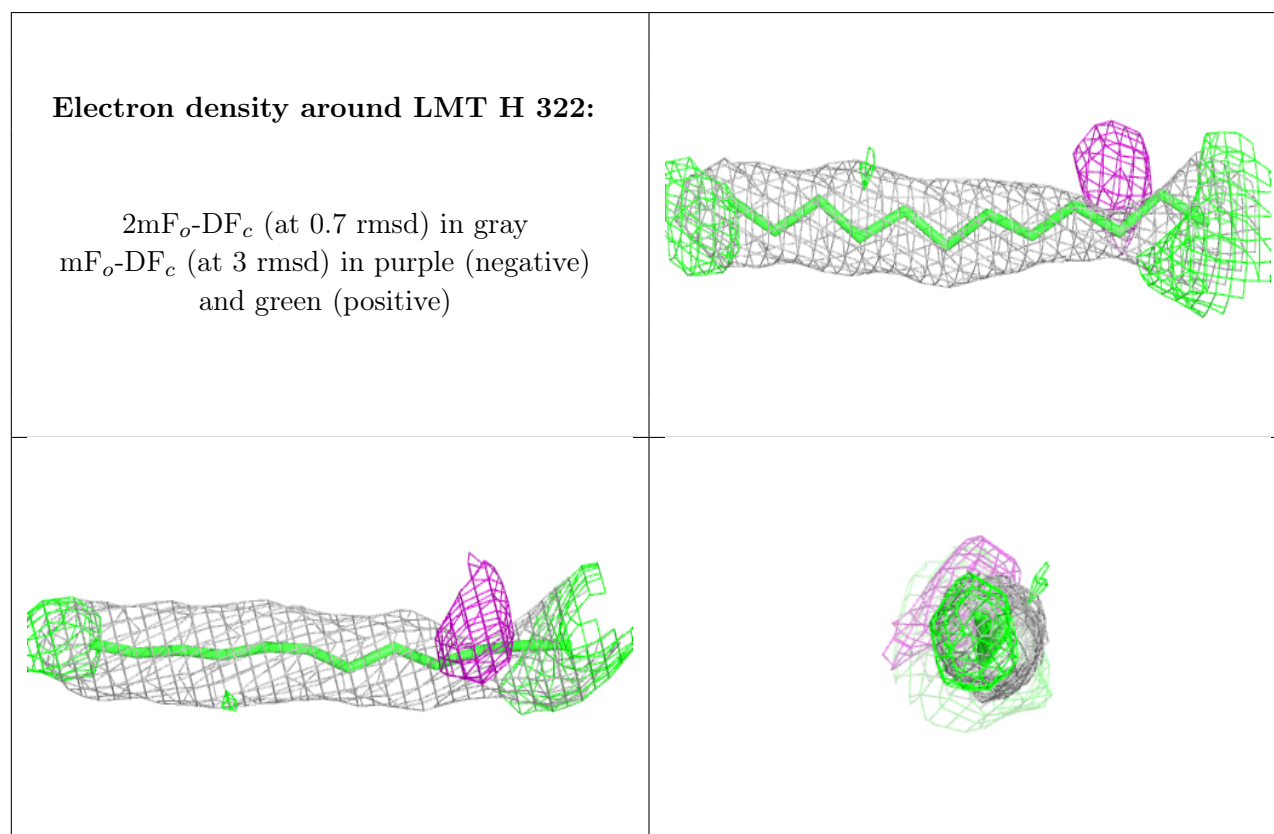
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	LMT	B	321	12/35	0.69	0.34	47,52,53,53	0
3	LMT	H	322	12/35	0.70	0.31	44,49,50,50	0
2	PLC	F	320	7/42	0.71	0.41	60,61,64,65	0
2	PLC	G	318	33/42	0.73	0.33	69,100,132,132	0
2	PLC	G	319	9/42	0.74	0.47	98,100,101,101	0
2	PLC	B	318	33/42	0.74	0.33	76,99,130,130	0
3	LMT	D	321	12/35	0.74	0.32	46,50,52,52	0
2	PLC	D	319	9/42	0.74	0.35	72,76,79,79	0
2	PLC	A	321	7/42	0.75	0.33	57,58,59,62	0
3	LMT	G	320	12/35	0.76	0.32	48,52,54,54	0
2	PLC	I	320	20/42	0.76	0.43	55,60,110,110	0
3	LMT	A	322	12/35	0.77	0.31	49,53,55,55	0
2	PLC	D	318	33/42	0.77	0.28	66,92,124,124	0
2	PLC	H	319	9/42	0.77	0.41	88,91,95,95	0
2	PLC	A	319	9/42	0.77	0.40	91,93,95,96	0
3	LMT	G	321	12/35	0.77	0.30	45,49,51,51	0
2	PLC	J	318	33/42	0.77	0.30	73,97,131,131	0
3	LMT	H	323	12/35	0.77	0.33	46,51,52,52	0
2	PLC	D	320	18/42	0.78	0.32	49,77,81,81	0
2	PLC	F	318	33/42	0.78	0.30	83,101,133,133	0
2	PLC	C	318	33/42	0.78	0.31	75,101,137,137	0
2	PLC	I	318	33/42	0.78	0.27	64,95,127,127	0
3	LMT	C	320	12/35	0.78	0.30	48,52,54,54	0
4	NA	A	323	1/1	0.78	0.87	87,87,87,87	0
2	PLC	A	318	33/42	0.79	0.27	68,92,121,121	0
2	PLC	I	319	9/42	0.79	0.35	76,78,83,83	0
2	PLC	B	319	9/42	0.79	0.34	73,77,83,84	0
2	PLC	B	320	19/42	0.79	0.37	58,62,116,116	0
3	LMT	J	321	12/35	0.79	0.29	50,54,55,56	0
3	LMT	F	321	12/35	0.79	0.27	47,51,53,53	0
2	PLC	F	319	9/42	0.80	0.33	73,80,83,83	0
3	LMT	E	321	12/35	0.80	0.29	50,54,56,56	0
2	PLC	E	320	20/42	0.80	0.28	52,55,84,85	0
2	PLC	H	320	18/42	0.81	0.35	46,95,101,102	0
3	LMT	B	322	12/35	0.81	0.27	48,52,54,54	0
2	PLC	H	318	33/42	0.82	0.27	75,100,133,133	0
2	PLC	J	320	19/42	0.82	0.33	48,55,108,108	0
2	PLC	E	318	33/42	0.82	0.29	82,106,134,134	0
2	PLC	E	319	9/42	0.83	0.33	83,86,88,88	0
2	PLC	C	319	9/42	0.83	0.32	75,77,80,81	0
2	PLC	A	320	19/42	0.84	0.30	48,57,97,97	0
2	PLC	J	319	9/42	0.84	0.38	91,93,94,94	0
2	PLC	H	321	19/42	0.85	0.30	50,54,105,105	0

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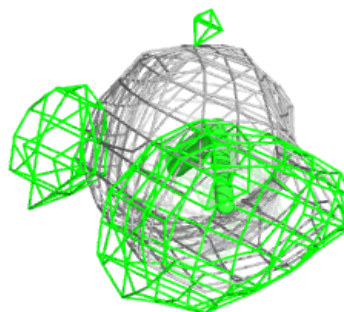
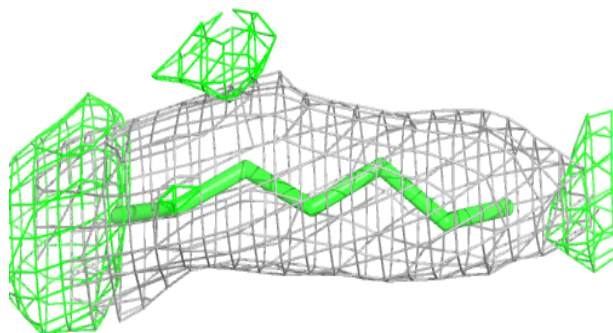
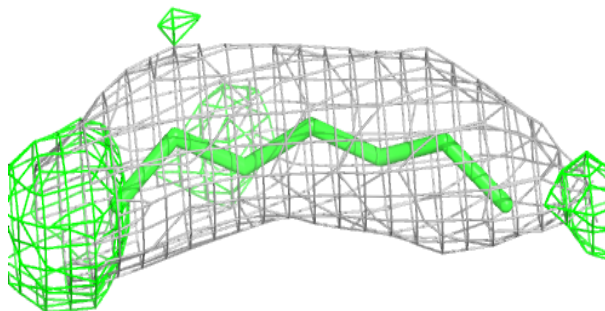
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	NA	F	322	1/1	0.86	0.77	83,83,83,83	0
5	CL	E	322	1/1	0.88	0.18	92,92,92,92	0
5	CL	A	324	1/1	0.89	0.14	73,73,73,73	0
5	CL	B	323	1/1	0.92	0.15	81,81,81,81	0
5	CL	G	322	1/1	0.92	0.14	79,79,79,79	0
5	CL	C	321	1/1	0.94	0.19	88,88,88,88	0
5	CL	H	324	1/1	0.94	0.15	76,76,76,76	0
5	CL	I	321	1/1	0.94	0.12	69,69,69,69	0
5	CL	D	322	1/1	0.95	0.15	74,74,74,74	0
5	CL	F	323	1/1	0.97	0.12	71,71,71,71	0
5	CL	J	322	1/1	0.97	0.13	75,75,75,75	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

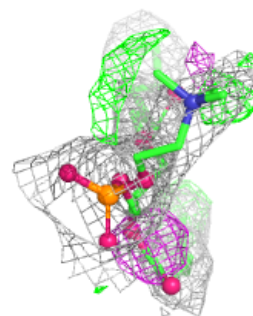
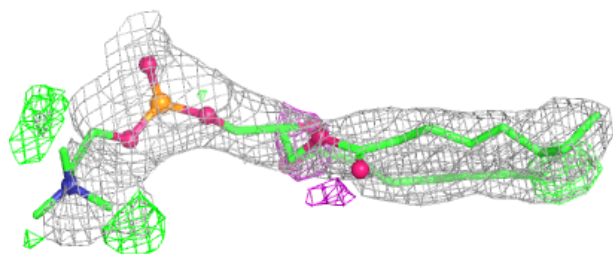
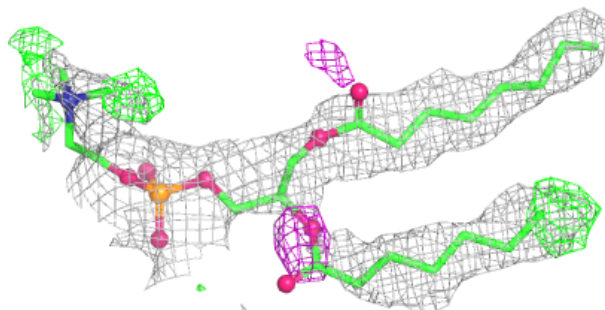


Electron density around PLC F 320:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

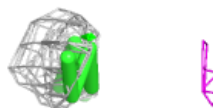
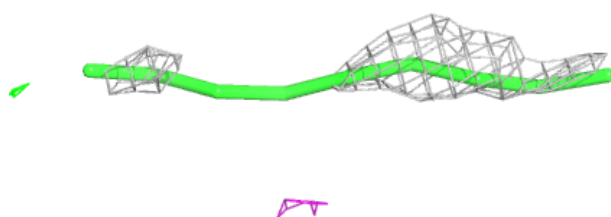
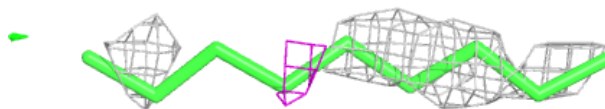
**Electron density around PLC G 318:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

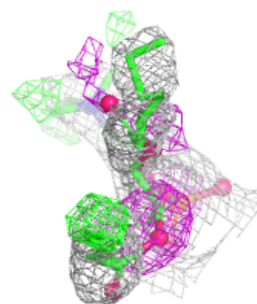
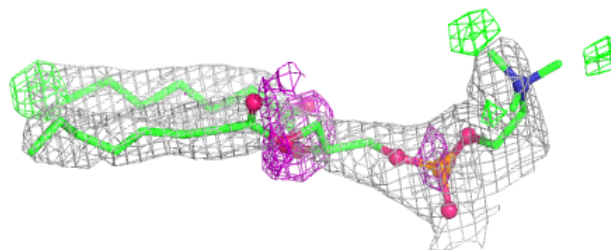
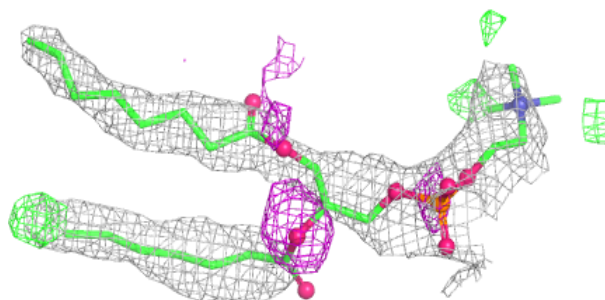


Electron density around PLC G 319:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

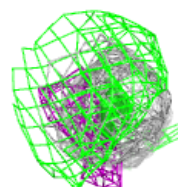
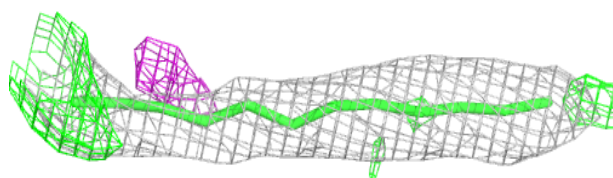
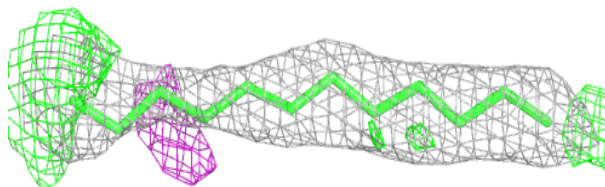
**Electron density around PLC B 318:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

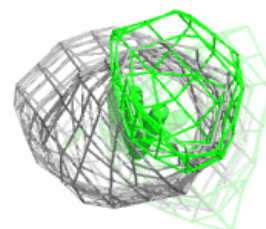
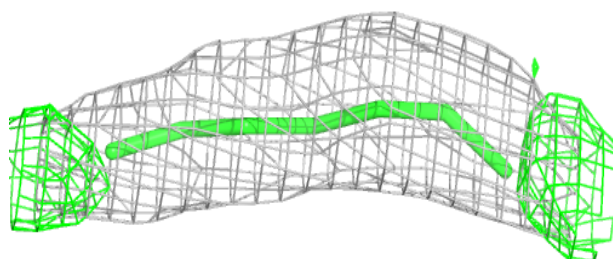
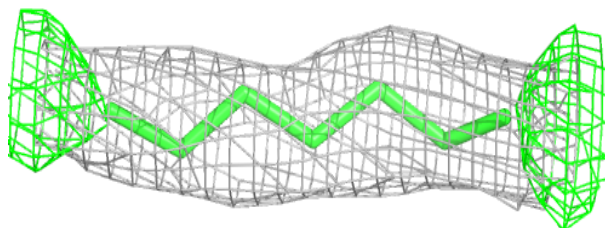


Electron density around LMT D 321:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

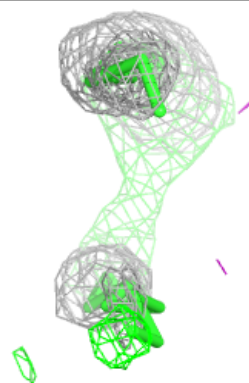
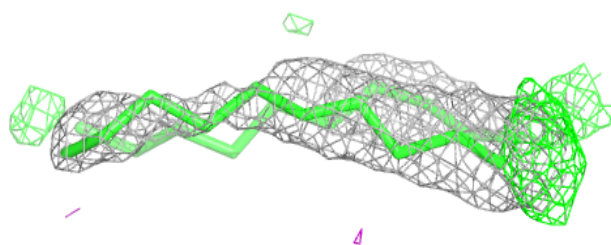
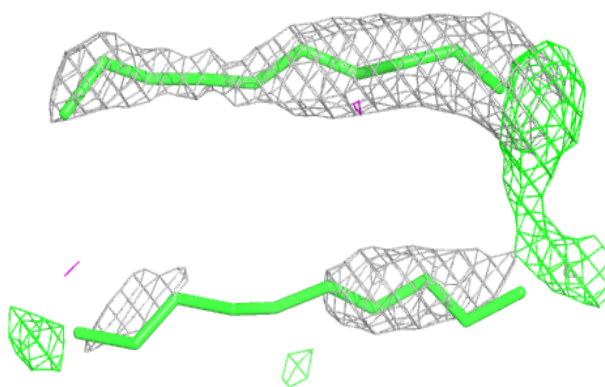
**Electron density around PLC A 321:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

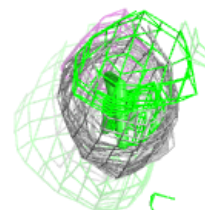
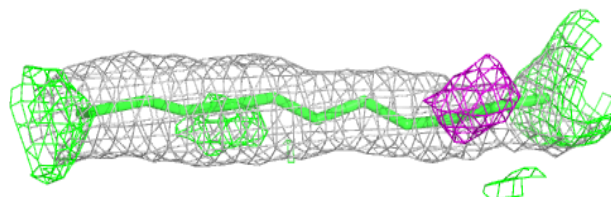
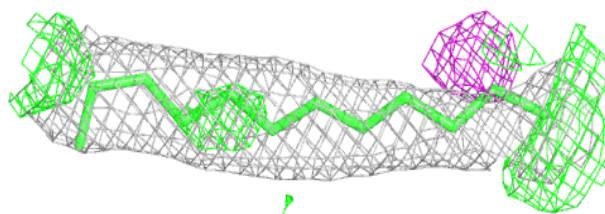


Electron density around PLC I 320:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

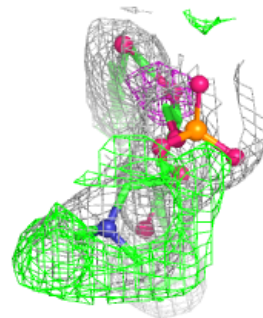
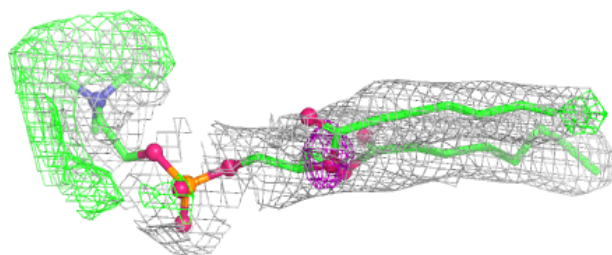
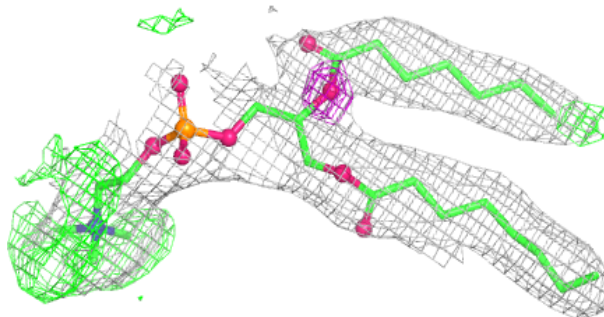
**Electron density around LMT A 322:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

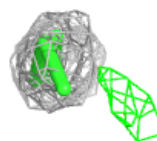
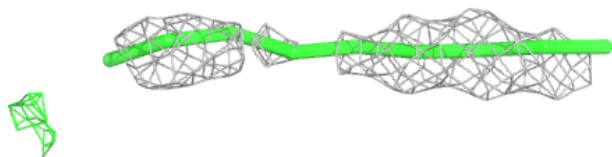
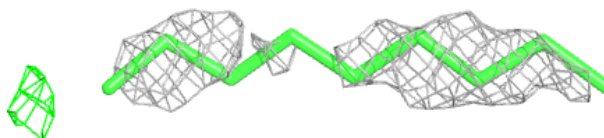


Electron density around PLC D 318:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

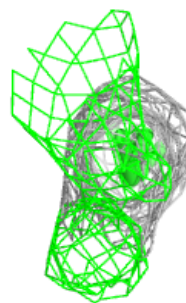
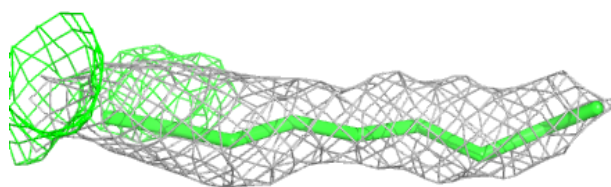
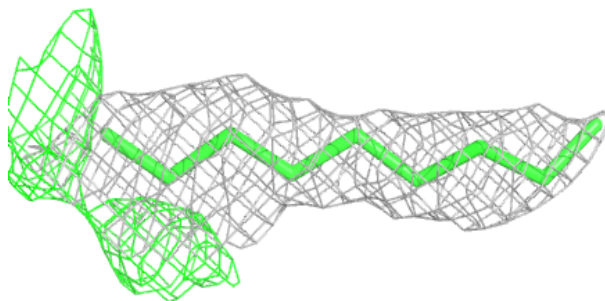
**Electron density around PLC H 319:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

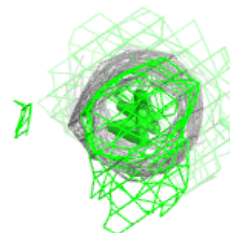
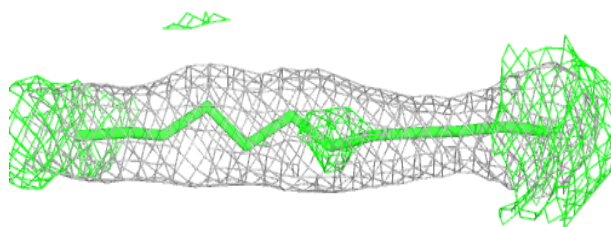
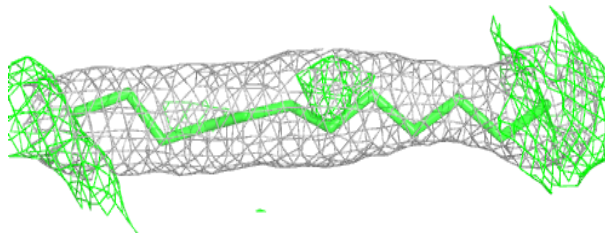


Electron density around PLC A 319:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

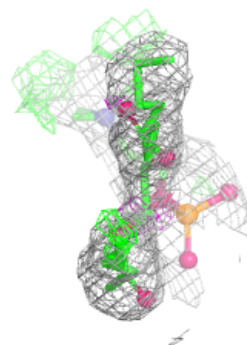
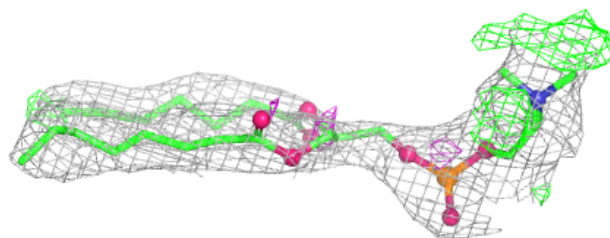
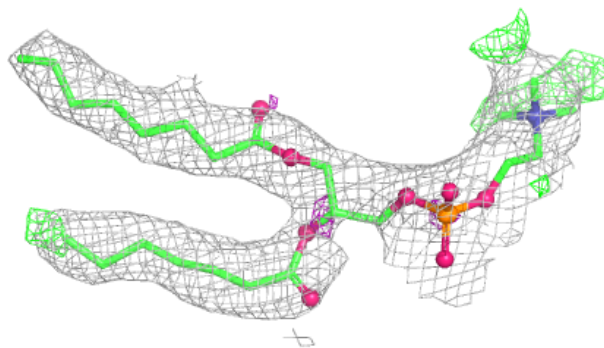
**Electron density around LMT G 321:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

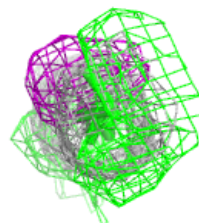
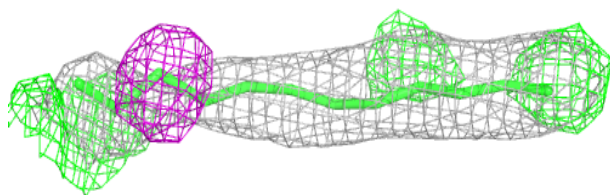
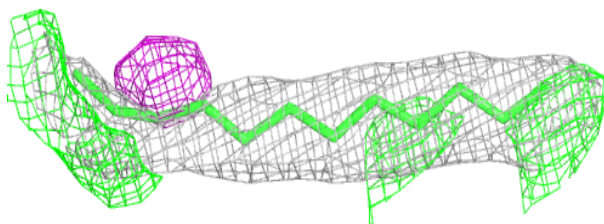


Electron density around PLC J 318:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

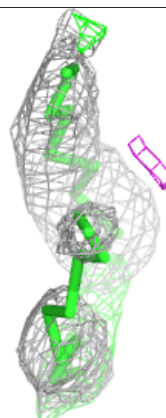
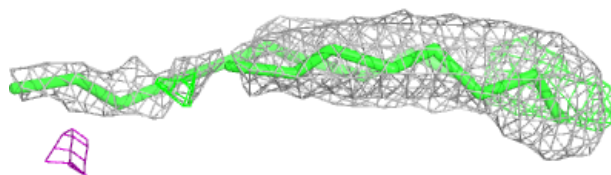
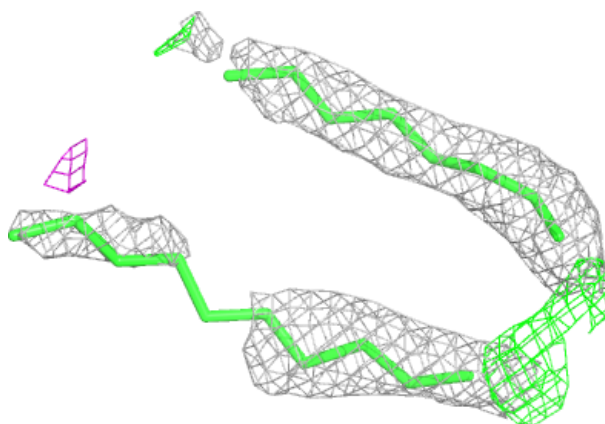
**Electron density around LMT H 323:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

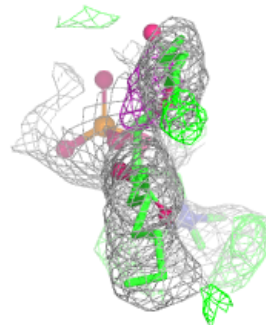
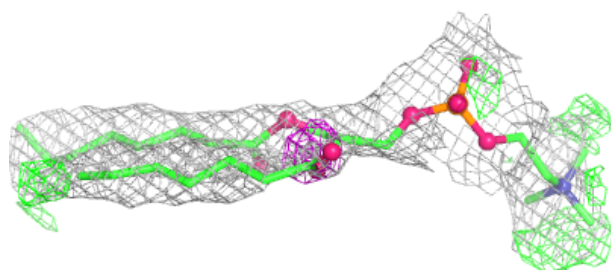
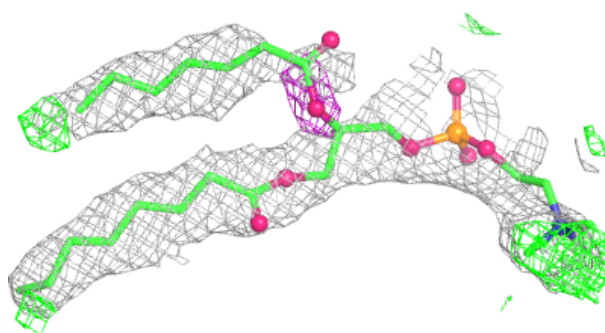


Electron density around PLC D 320:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

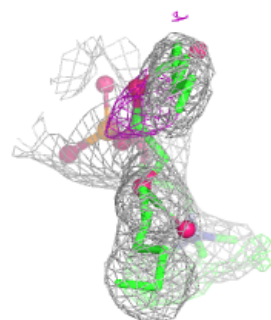
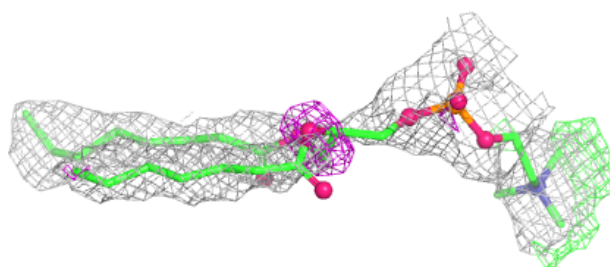
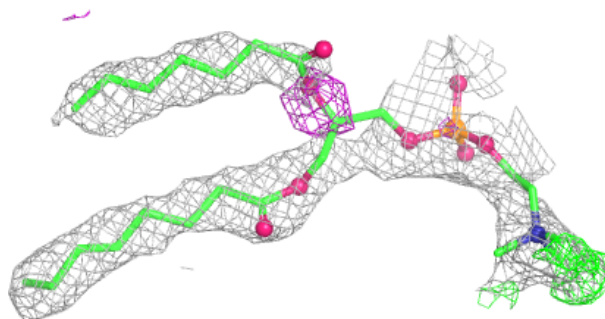
**Electron density around PLC F 318:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

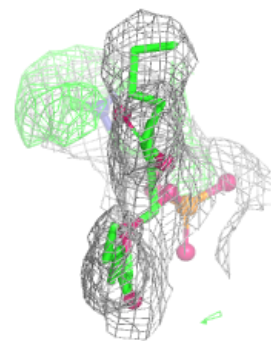
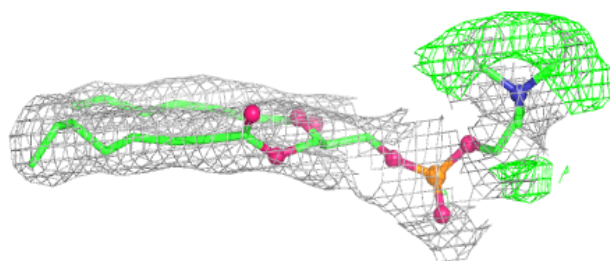
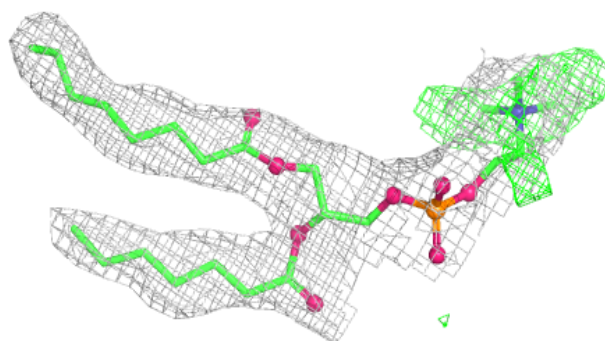


Electron density around PLC C 318:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

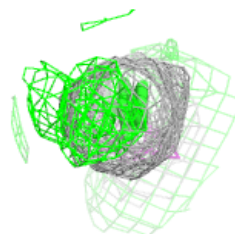
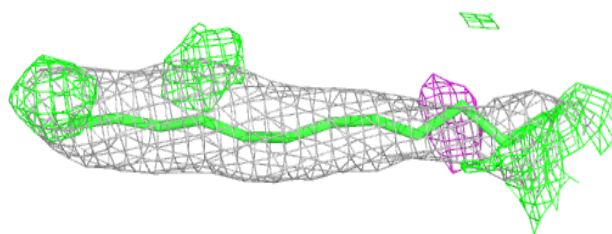
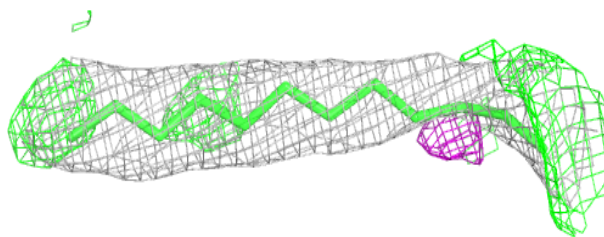
**Electron density around PLC I 318:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

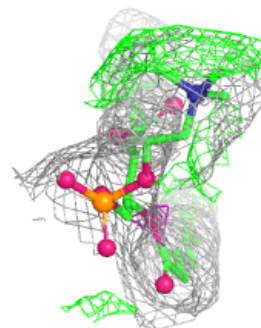
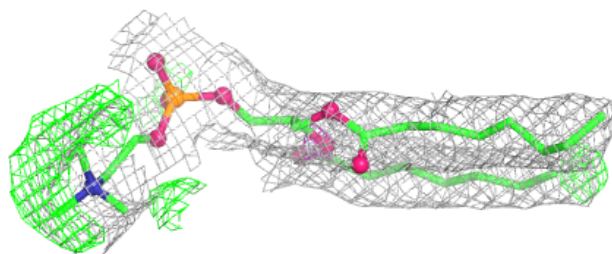
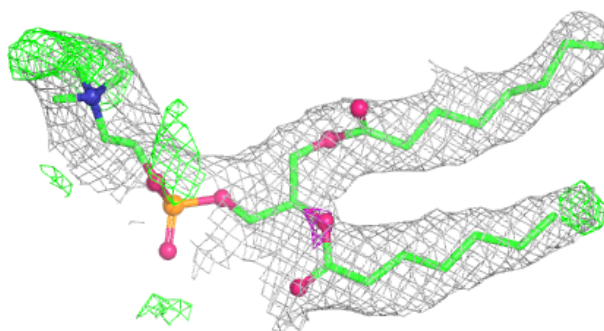


Electron density around LMT C 320:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

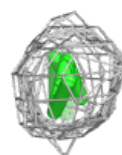
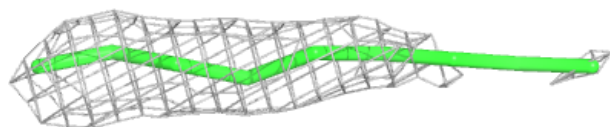
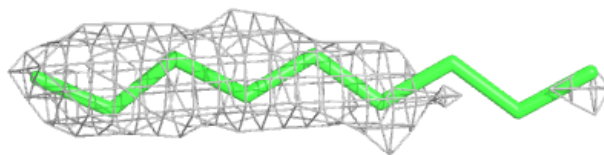
**Electron density around PLC A 318:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

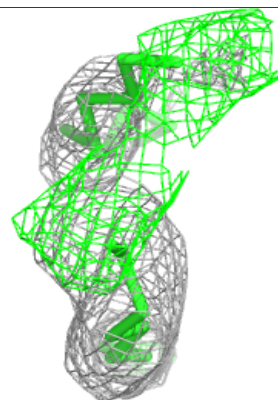
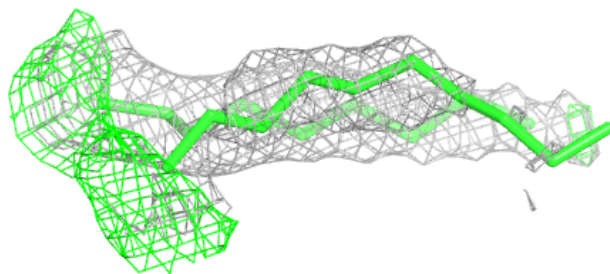
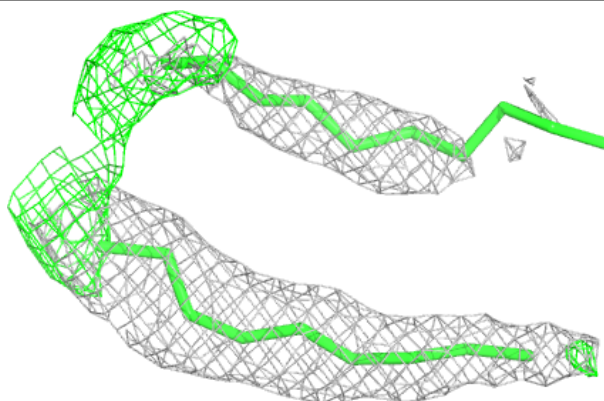


Electron density around PLC B 319:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

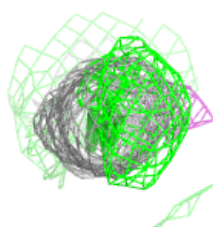
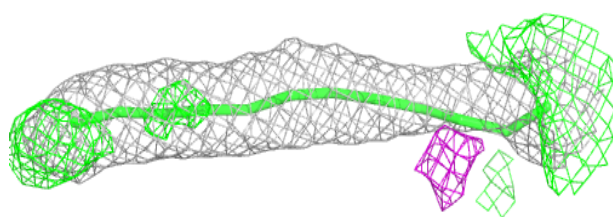
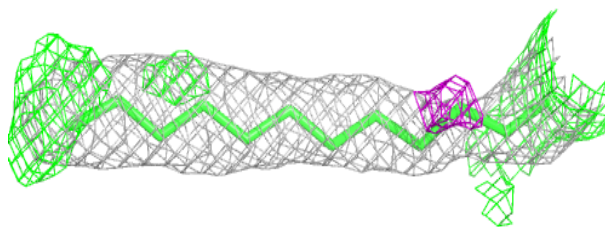
**Electron density around PLC B 320:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

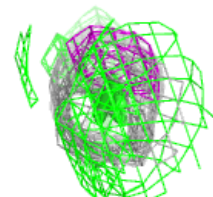
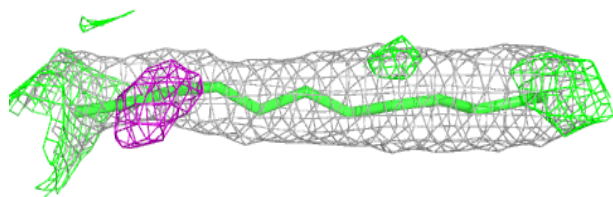
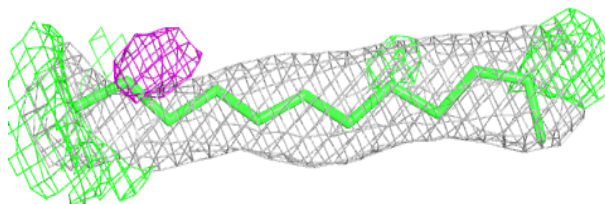


Electron density around LMT J 321:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

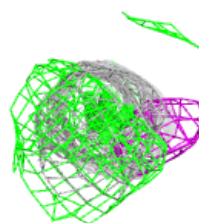
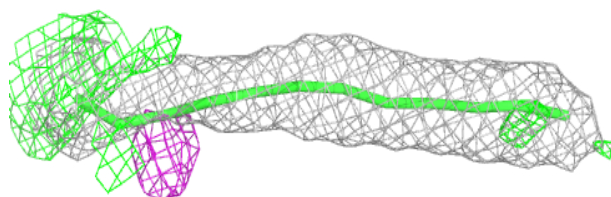
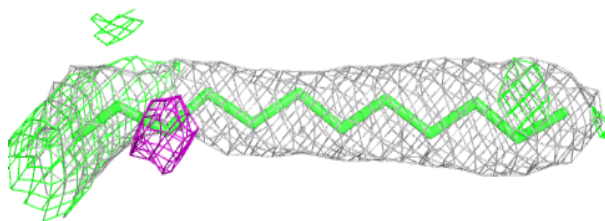
**Electron density around LMT F 321:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

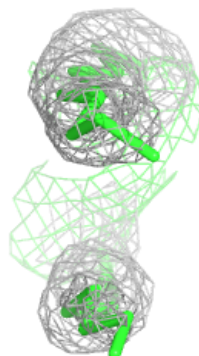
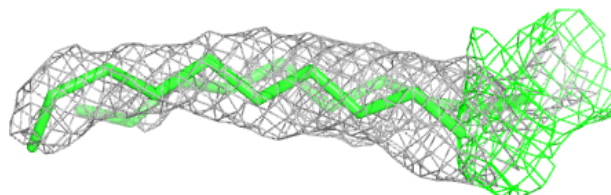
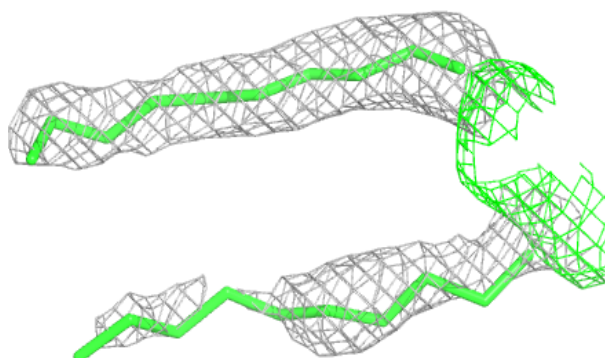


Electron density around LMT E 321:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

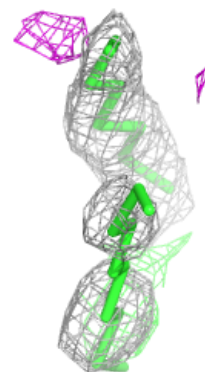
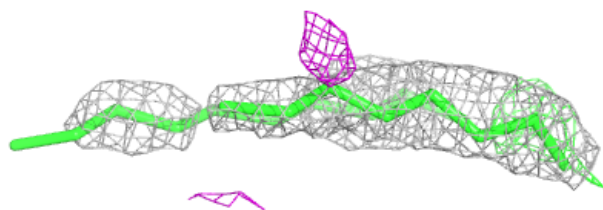
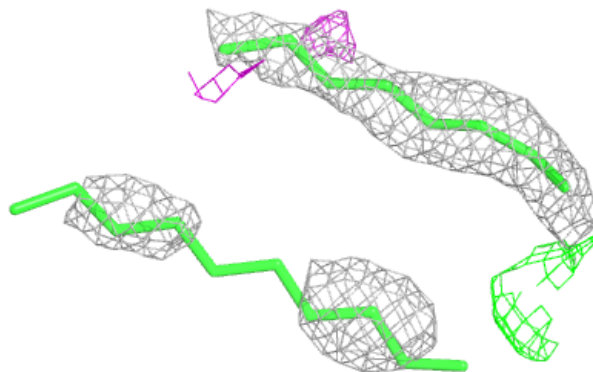
**Electron density around PLC E 320:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

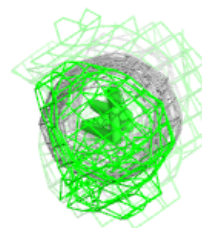
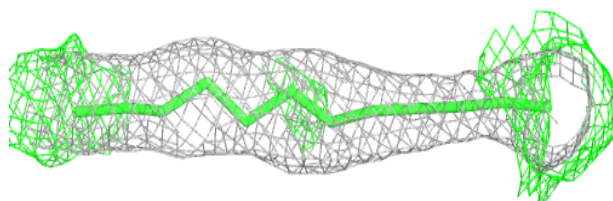
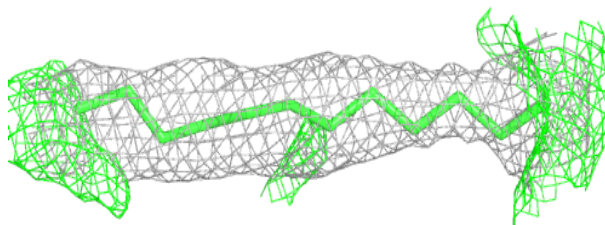


Electron density around PLC H 320:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

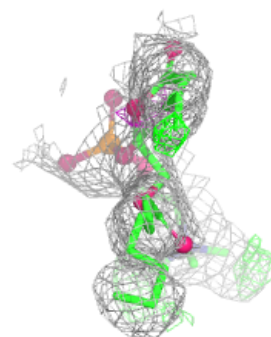
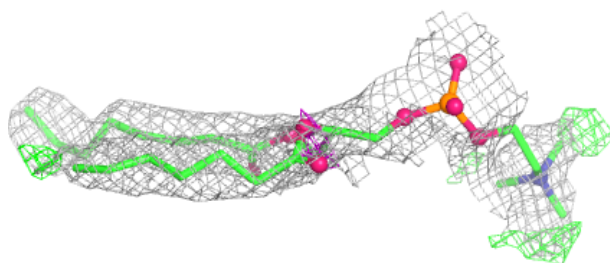
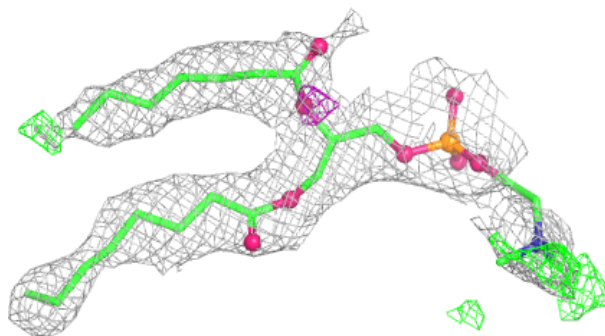
**Electron density around LMT B 322:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

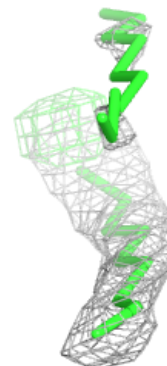
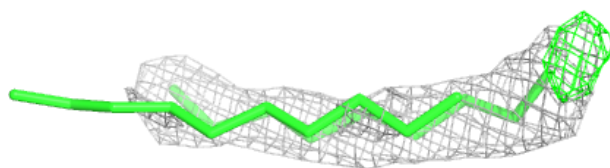
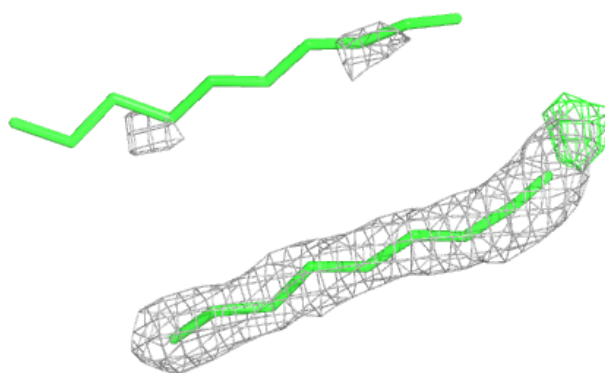


Electron density around PLC H 318:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

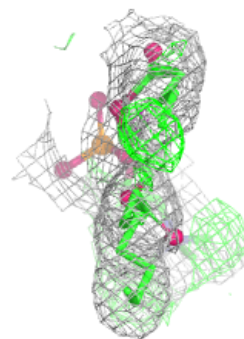
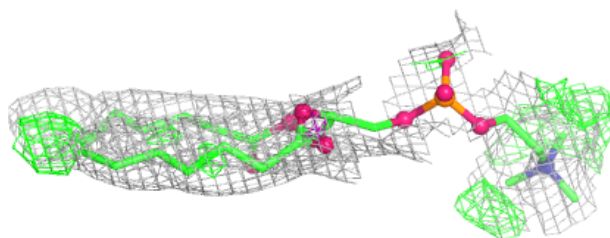
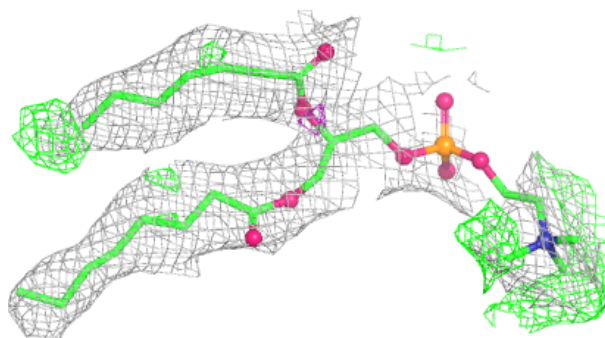
**Electron density around PLC J 320:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

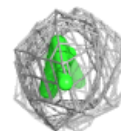
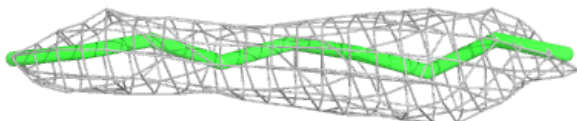
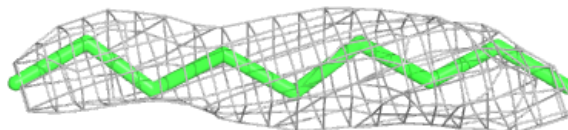


Electron density around PLC E 318:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

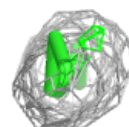
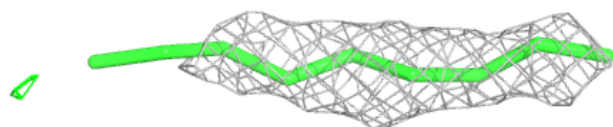
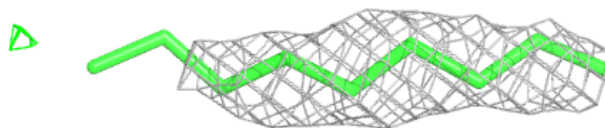
**Electron density around PLC E 319:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

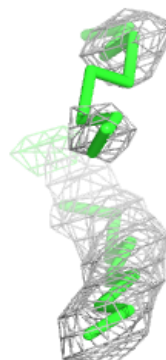
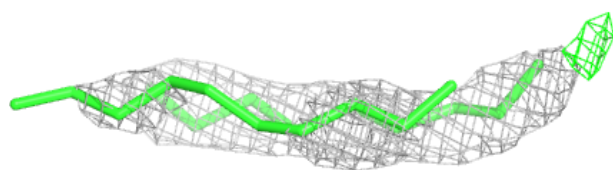
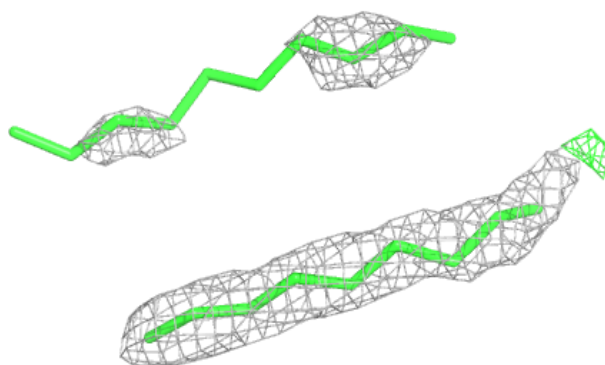


Electron density around PLC C 319:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

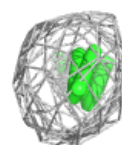
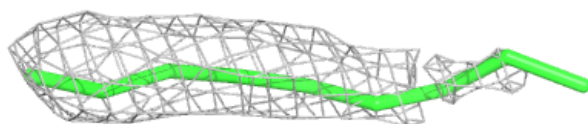
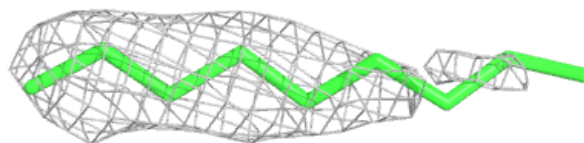
**Electron density around PLC A 320:**

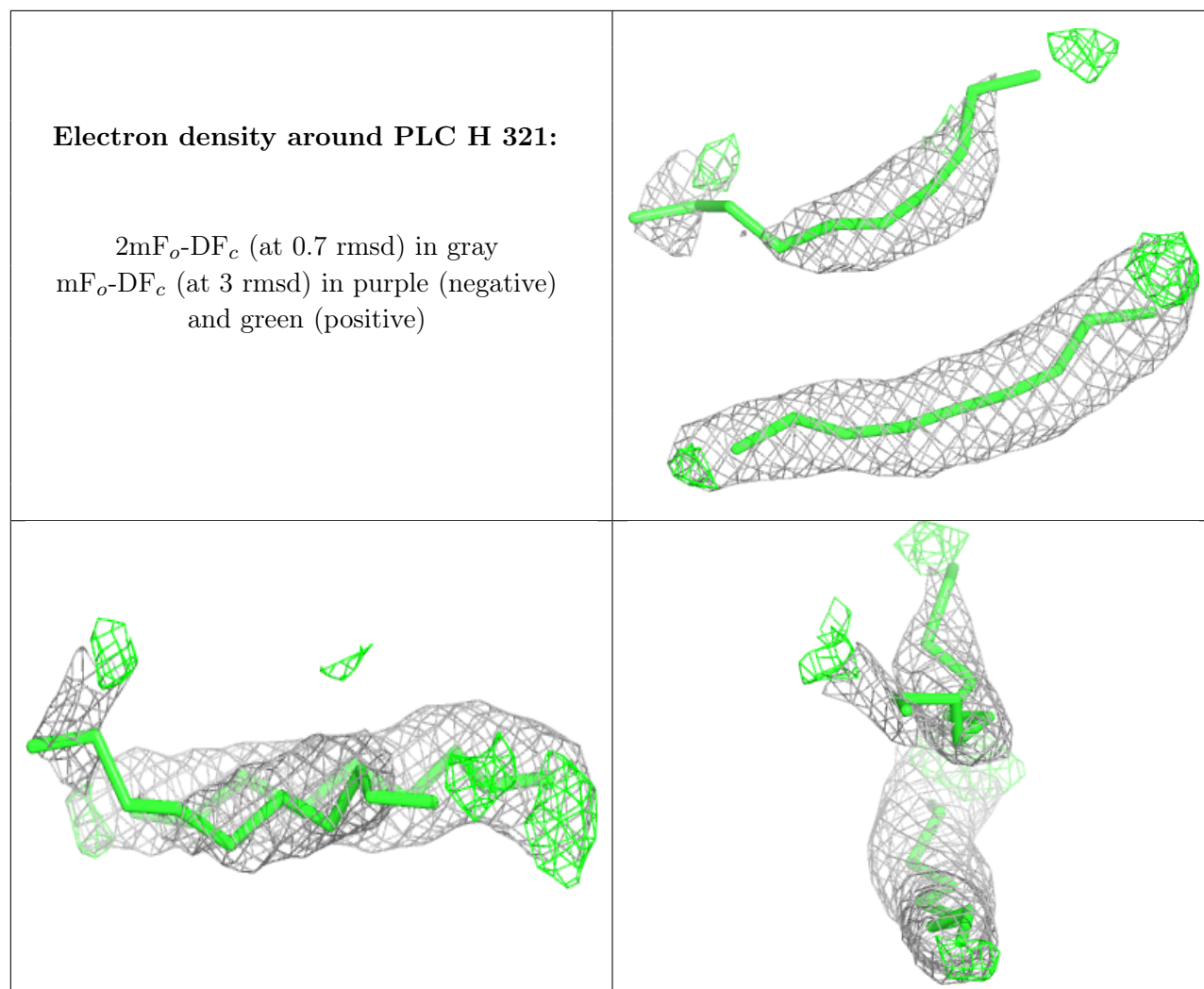
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around PLC J 319:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





6.5 Other polymers ⓘ

There are no such residues in this entry.